Korean Vowel Systems

A Study of Vowel Systems in Seoul and Pyongyang



Masteruppgåva i lingvistikk

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UNIVERSITETET I OSLO

Hausten 2014

Summary

This is a study of the Korean vowel system. The traditional description is that of a quadrangular system with three levels of sonority and three to four classes of timbre, but none of my findings match it. Instead, unusual and exciting vowel systems emerge, with back vowels in both the Seoulites and older people in Pyongyang contrasting three degrees of timbre in addition to the front vowels, though they do it in different ways.

The vowel system of Seoul is found to be a triangular system where /ɛ/ has merged with /e/ and /o/ has been raised to the same degree of closeness as /u/, making a four-way distinction in timbre between what we should call /i, tu, tl, u/. The medial level of sonority, then, consists of only two vowels: /e/ and /a/. The most sonorous member is still /a/. The system is not only found in university students either; it is consistent in the KBS News announcers too. This system is shown in table 1, with the traditional symbols, but with my suggested alternatives in parentheses.

Front	Back		
Unrounded	Unrounded Rounded		
i	w (i)	u (u)	o (u)
e	Λ		
a			

Table 1: Seoul Vowel System

The Pyongyang vowel systems vary a bit more, with the oldest announcer displaying a triangular system with no distinction between /e/ and / ϵ /, but with four classes of timbre being contrasted at the medial level of sonority, consisting of /e, 9, γ , o/. This is shown in table 2, with my suggested alternative symbols in parentheses next to traditional ones.

Front	Back		
Unrounded	Unrounded Rounded		
i	u		
e (ε)	(c) o (x) (x) (e, e) m		
a			

Table 2: Older Pyongyang Vowel System

The younger announcers distinguish /e/ and / ϵ /, but they do it in an unexpected way: the close /e/ sits between / ϵ / and /i/, but / ϵ / actually contrasts with /9, γ , o/ purely in timbre, meaning /e/ sits between these two sonority levels. This is shown in table 3, with my suggested alternative symbols in parentheses next to the traditional symbols.

Front	Back		
Unrounded	Unrounded Rounded		
i			
e	u		
ε	m (ε, ε) Λ (γ) ο (ο)		
a			

Table 3: KCTV Vowel System

Front	Back		
Unrounded	Unrounded	Rounded	
i	w	u	
e (ε)	Λ (Υ)	0 (3)	
a			

Table 4: Young Pyongyang Vowel System

Acknowledgements

This is the thesis I have written for the master's degree in linguistics at the University of Oslo, fall 2014. It explores Korean vowels from the two capital cities separated by the demilitarized zone, Seoul and Pyongyang. It not only looks at the acoustic measurements of each vowel, but also at how they fit in the overall vowel system according to traditional phoneme theory. The thesis was written by me, but I owe thanks to many others for helping me with it.

First, I would like to express my gratitude to my supervisor, Rolf Theil, for helping me with the thesis. He was also the one who inspired me to study linguistics in the first place, with his accounts of field work in Africa. His skepticism of sloppy terminology and willingness to disagree with consensus have helped me learn to read literature much more critically, and his knowledge of and experience in the field of linguistics, as well as his constructive comments along the way have both been invaluable. This thesis would probably never have been written without him.

In writing the thesis, I had a lot of support from friends and family, which I am very thankful for. I have to especially thank my patient and helpful Korean friends. Thanks to Ben Kim in Toronto for helping me with the data, and even sitting up all night helping me through the last couple of informants! His knowledge and patience drastically reduced the amount of time I spent on the laborious task of identifying vowels and words from which to extract the formants. Thanks to Yeon Ju Oh for not

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only helping me with the data collection, but also getting the relevant Korean literature for me in two different libraries. Seoul is a big city, and the libraries are far apart!

Thanks to Hye Jung Choi for writing the paragraph for use in data collection, and Hyesang Ko for her help and support in learning Korean! Thanks also go to all the

informants, including those I have not met myself, as well as to the guides in the DPRK

for their willingness to answer questions about their language and culture.

I would also like to thank my linguistics professors and fellow students at the University

of Oslo. It is thanks to them that the studies have been so interesting and enjoyable. Of

these, special thanks for my roommate and good friend Eirik Tengesdal are in order.

His knowledge of both subject and practical matters has been of indescribable

importance, and it has been a pleasure to spend my high school and university years

with him. In addition, he has proofread the entire thesis, so double thanks for him!

Working with this thesis has allowed me to travel very freely to places I thought I

would never see and get to know many new people from all over the world. It has

turned out to be a whole lot of hard work, but it has been worth it. I am very grateful

for having had this opportunity.

Berrjod, October 30th 2014

Victor Berrjod

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1. Introduction

Abstract

This introduction presents the reasons for why I decided to write about this topic. It also gives an account of romanization and transcription systems used, as well as a brief outline of what the thesis contains.

1.1 Motivation

1.1.1 Why Korean Vowels?

As someone who enjoys learning languages as a pastime, I have come to take interest in what is sometimes called the "sinosphere", meaning the area of East Asia traditionally influenced by Chinese language and culture. In the golden ages of Chinese civilization, many its neighbours borrowed not only scientific and legal vocabulary, but thousands upon thousands of vocabulary units and even the word formation system itself. The result is that knowledge of any Chinese variety aids a student of such otherwise diverse languages as Vietnamese and Japanese a great deal. Another such language is Korean, and I decided to learn more about the oft-forgotten language of the Korean peninsula, obscured by the People's Republic of China's economic growth and Japanese popular

culture.

Although learning the readings of Chinese characters in Korean is both useful and interesting, the native Korean alphabet is equally interesting, especially for those of us with warm feelings for phonetics. This featural alphabet has its consonants take the shape of the tongue pronouncing them and marks whether they are plosive or not, adding an extra line for aspiration... for the most part. Vowels are another story, though. Although they do have a certain logic to them, they are not (near) anatomical descriptions, like the consonant symbols. I learned the pronunciation described in textbooks and academic works alike, but something seemed off about the traditional description. When I showed a Korean friend how to make a vowel chart, I was surprised to find no difference in vowel height between the sounds traditionally described as [u] and [o]. They seemed to overlap quite a bit, in fact. I also kept hearing rumours about how differently some of the vowels sounded in north Korea, with one friend telling me that their /o/ sounded like the southern Λ and the other way around. When I tried to find literature about this, there appeared to be no thorough research on it, so I decided to write about it in my master's thesis in the hope of finding something interesting that could help not only me, but also anyone else wanting to improve their Korean pronunciation, and maybe even discover something new and exciting along the way.

1.1.2 North and South Korea

Before taking an interest in Korean language, I hardly knew anything about the Korean peninsula, aside from the names of the capital cities of the northern and southern parts of it, but the more I learned, the more fascinated I grew with the history of the Korean war, and the diverging cultures on each side of the 68th parallel. I tried to learn all I could about north Korea, and naturally that included what the language there was like. I wanted to analyze the vowels of speakers from both sides of the demilitarized zone in detail to spot any differences. I wanted to have 12 informants, representing both sexes in three generations from two capital cities read the same thing, but that would mean either going to Pyongyang myself or find Pyongyangers outside of the Democratic People's Republic of Korea. I contacted DPRK-affiliated organizations, but found that the price for travelling alone to Pyongyang for a few recordings would be far from worth it. Travelling with a group was much cheaper, but there was no guarantee of any recordings; especially good ones. Fortunately, media from the DPRK is available on the Internet, so when I returned from Pyongyang without any good recordings (though with many good memories), I decided to use online material instead.

1.2 Transcriptions and Spellings

In this thesis, I employ many different transcription systems and spelling conventions. I will explain them one by one.

1.2.1 Korean Spelling

Since Korea was split in two over 60 years ago, spelling reforms have been carried out in both the north and south, leading to some words being spelled differently. The easiest way to harmonize spellings, since most of them occur in Sino-Korean words, is to simply write these words in their original (and my preferred) spelling: Chinese characters. This "mixed script" style obscures the vast majority of spelling differences, so that e.g. 론문 (DPRK) and 논문 (ROK), respectively "ronmun" and "nonmun", meaning 'thesis', are both rendered 論文.

Although both the DPRK and the ROK officially use only Korean letters in their orthography, Chinese characters are commonly included in dictionaries in both north and south. However, since neither most Korean nor international readers can be assumed to be able to read Chinese characters easily, and the latter group cannot be assumed to be able to read Korean at all, the Korean spelling *and* its romanization or phonetic transcription will be included alongside any word. Section 1.2.2 deals with the romanization, and 1.2.3 deals with phonetic transcription.

Although both orthographies have their strengths and weaknesses, the official spelling used in the DPRK contains more etymological information and uses fewer spaces than that of ROK, and for these reasons, it is the one I will use alongside the Chinese characters. Fortunately, any differences are very minor and should be understandable to anyone familiar with just ROK spelling as well.

1.2.2 Romanization of Korean

Although several romanization schemes exist for Korean, I will follow a slightly modified McCune–Reischauer scheme, which aims to represent Korean words according to their pronunciation, rather than acting as a pure transliteration.

The McCune-Reischauer system distinguishes the voiceless and voiced variants of Korean 'lax' plosives: 붉은 is pulgǔn ('red'), and 아버지 is abŏji ('father'), so that voiced \exists is transliterated 'b' and voiceless is 'p'. Aspirated \exists as in 높이 is written with an apostrophe: nop'i ('height'). Figure 1.1 shows the romanization of Korean letters. Five letters or combinations of letters are romanized differently by me: \lnot , \lnot , \lnot , \lnot , \lnot , \lnot , \lnot , and \lnot . Standard McCune-Reischauer uses ch/j/t, ch'/ch'/t, tch/tch/t, ae, and oe for these. I must note that, although Ahn (2009: 21-22) lists \dagger simply as "y" in McCune-Reischauer romanization, that is merely a typo; it should be yŏ.

Letter	Initial	Intervocalic	Final
٦	k	g	
7	k'	k'	k
ГГ	kk	kk	
0	(null)	ng'	ng
ō	h	h	
⊏	t	d	
E	ť'	ť'	
CC	tt	tt	
۸.	s	S	t
м	SS	SS	
ス ス	c	j	
六	c'	c'	
ᄍ	cc	cc	
2	r	r	1
L	n	n	n
Н	p	b	
TI.	p'	p'	
НН	pp	pp	p
	m	m	m
I	i		
11	e		
Н	ě		
ŀ	a		
1	ŏ		
_	0		
т	u		
_	ŭ		
⊧, π, ∜, etc.	ya, yu, ye, etc.		

과, 눠, etc.	wa, wŏ, etc.
1, 11, 111	,,

Table 1.1: Romanization

If actual pronunciation differs from spelling, then the pronunciation is given preference: e.g. 漢字 ('Chinese character') is spelled 한자, indicating "hanja", but its pronunciation is that of 한짜, so I romanize it "hancea".

1.2.3 The International Phonetic Alphabet

Although well known in phonetic and phonological circles, a note is in order. I will use slashes to indicate phonological transcriptions, and brackets to indicate phonetic transcriptions. The latter is intended to be as useful as possible in guiding the reader to correctly pronounce something, whereas the former is intended to represent the sounds with focus on their place in the overall sound system rather than their actual pronunciation. Any transcription is an idealized representation, especially those of abstract or "imagined" speech instances, which is necessarily what we are transcribing unless we have a concrete utterance in mind. For this reason, phonological concerns are of course also relevant for the abstract phonetic transcription, even though they are less relevant to concrete phonetic transcriptions.

Given that the symbols can represent quite different things depending on how they are used and how detailed the user wants or needs to be, I will detail my use of them here. For example, the sound represented by the Korean letter ¬ in post-pausal position is

usually transcribed as [k] in IPA. This does make sense when considering that the sound written in Korean as \neg is usually transcribed as $[k^h]$; the difference between them is the degree of aspiration. However, \neg is noticeably more aspirated than \neg , which is variously transcribed as [k'], [k'], [k'], [k'], etc. It is clear that these are relevant considerations, since the limited symbols of the IPA serve to cover a practically innumerable amount of possible realizations. Although the thesis is about the vowels, I will introduce the consonants first.

Korean plosives and affricates come in three "sets" or "rows", where one member is usually described as "aspirated", one as "lax", and the last as "tense". My transcriptions aim to be as useful as possible at helping the reader pronounce the words accurately, and for this reason I will transcribe the "aspirated" row $(\Xi, \Xi, \exists, \bar{\lambda})$ as [ph, th, kh, $\widehat{\mathfrak{tch}}$], the "lax" row $(\Xi, \Xi, \neg, \bar{\lambda})$ as [ph, th, kh, $\widehat{\mathfrak{tch}}$] initially and [b, d, g, $\widehat{\mathfrak{dz}}$] between voiced sounds, and all three as [p\,\tau, t\,\tau, k\,\tau] in final position ([\hat{\textsf{tch}}]\) doesn't occur, but merges with [t\,\tau] in final position). To settle on a single transcription of the "tense" row (Ξ, Ξ, \neg, π) , I have chosen to simply represent them as unaspirated plosives: [p, t, k, $\widehat{\mathfrak{tch}}$], although other transcriptions are legitimate too. The sibilants \wedge and \wedge are also tricky to transcribe, but I will use [s\,\textsf{h}, s\,] and [\,\tau^h, \,\tau] initially and [l] finally.

In phonological transcriptions, I will stick to more traditional notations, where the "aspirated" row is simply marked with a normal aspiration mark: $/p^h$, t^h , t^h , t^h , the

"lax" row with no special marks and no difference initially or intervocalically: /p, t, $\widehat{t\varepsilon}$, k/, and the "tense" row with an ejective mark: /p', t', $\widehat{t\varepsilon}$ ', k', s'/. The second sibilant will be written as /s/, and the liquid as /l/.

As for the vowels, I will use the symbols [i, e, ε , a, Λ , o, u, ω] and /i, e, ε , a, Λ , o, u, ω / unless dealing with a specific utterance. Note that many authors use /i/ and [i] rather than / ω / and [ω]. As we will see, there is a great deal of individual variation in the precise pronunciation. Indeed, even the same individual pronounces these sounds differently from one utterance to another – often very differently. The transcriptions are therefore rather idealized, as most transcriptions are. For consistency, I will stick to these symbols even when considering mergers, so that even if an informant doesn't distinguish /e/ and / ε /, I will consider them separately, since I have sampled them separately.

1.2.4 Names of Korea

The names of the "two Koreas" remain slightly controversial, since many Koreans still see Korea as one. A good illustration of this are the names they use about each other. Although the official name of the Democratic People's Republic of Korea is 朝鮮民主主義人民共和國 (조선민주주의인민공화국; cosŏnminjujuŭiinminkonghwaguk), or 朝鮮 (조선; cosŏn) for short, it is referred to as 北韓 (북한; pukhan) 'north Korea' in the Republic of Korea. The latter is officially called 大韓民國 (대한민국; těhanminguk), or 韓國 for short (whence the 韓). In the DPRK, it is conversely known as 南朝鮮 (남조

선; namjosŏn) 'south Korea'. A more neutral name could be 高麗 (고려; koryŏ), which is where we get "Korea" from, but it is only used for the historical dynasty. Since the names are so politicized, and no viable neutral alternatives are available, I think the most neutral option is to use their respective names for themselves. Extending this to English is also the most fair way to go about this. I will also spell "north Korea" and "south Korea" without capitalizing the compass direction, but will prefer to refer more specifically to "Seoul" or "Pyongyang" where this is possible.

1.2.5 English Spelling

The English orthography standard will be Canadian English. However, there will be a major difference in punctuation, which is usually placed before apostrophes and quotation marks. I will place it before these marks where it is part of the sentence being quoted, and after it where it's not. I will also use guillemets («») for proper quotations, and common ASCII quotation marks ("") otherwise. Apostrophes are used instead of quotation marks when they occur between a set of quotation marks.

1.3 Structure of the Thesis

1.3.1 Historical Development of the Korean Vowel System

The thesis will be structured so that the historical development and contemporary descriptions of the Korean vowel system are presented first. This section presents the

development of the system from Middle Korean in the 15th century, when the invention of the Korean alphabet enabled the production of literature in Korean. The development is considered all the way up to Contemporary Korean.

Further, four working hypotheses are considered:

- In Seoul, /e/ and /ɛ/ have merged.
- Before palatals/sibilants, [y] and [ø] occur as allophones of /wi/ and /we/ respectively.
- The vowels /o/ and /u/ are distinguished by F2 value, rather than F1 value, in Seoul.
- The vowels /o/ and /ʌ/ have merged in Pyongyang.

1.3.2 Theory and Method

Next, I will discuss the problem of defining the object of study. Although I am interested in the vowel systems of Seoul and Pyongyang, it is problematic to talk about "the Seoul dialect" or "the Pyongyang dialect", since there is no objective boundary that defines these supposed entities. Similarly, "speech community" is a problematic term that might at first seem like a good workaround.

The main theory underlying the thesis is the traditional phoneme theory of the Prague school of phonology, which will be described next. I will introduce Трубецкой's formulation of the theory, and special focus will be reserved for how it applies to vowel systems. This phoneme theory also underlies the descriptions of the vowel systems presented in chapter 2.

Next, I will describe the method. The data was extracted from the acoustic analysis program Praat, which is introduced as well. The collection of the samples, especially of the young Seoulites, will also be described.

1.3.3 Data

Next, the data will be presented in the form of vowel charts. These have the advantage of being familiar to any student of phonetics and phonology, and make spotting patterns easy. The informants are introduced, and the charts are displayed and discussed one by one. The charts for the young Seoulites are compared and discussed.

1.3.4 Analysis

The analysis of the data is where it all comes together. The data is analyzed in light of the theory, and the evidence for and against the hypotheses is considered. The overall system is also considered for each of the informants, and they are compared to each other. My findings as they relate to the hypotheses are:

- The Seoul informants have all merged /e/ and / ϵ /. Two out of four in Pyongyang have also merged them.
- Both [y] and [ø] occurred so rarely that they couldn't be reliably sampled.
- The Seoul informants distinguished /u/ and /o/ by their F2 values, not F1. The Pyongyang informants distinguished them by F1.
- None of the informants showed signs of /o/ and $/\Lambda/$ merging.

1.3.5 Summary and Conclusion

Finally, the thesis is summed up and a conclusion is drawn based on the analysis. This is also where the relevance of the study is considered, and suggestions are presented for future research.

2. Historical Development of the Korean Vowel System

Abstract

In this chapter, the historical development of the Korean vowel system is discussed, from Middle Korean to Contemporary Korean. Vowel harmony, tones, and diphthongs are also discussed. Finally, dialectal variation is considered, and hypotheses postulated.

2.1 The Periods of Development

Sohn (2001: 41) summarizes the development of Korean. Not unlike other periodizations, the starts and ends of periods are considered to coincide with historically significant events like the start of a dynasty. The advantage of doing this is that it is easier to talk about the different stages by knowing history, and not necessarily when an arbitrarily chosen linguistic feature appeared or disappeared, especially since that time can rarely be pinpointed anyway. We will consider the development from Middle Korean through Modern Korean to Contemporary Korean, but it is worth noting that Sohn's discussion goes even further back.

"Prehistoric Korean" is considered to have ended at the start of the Christian era. This is

probably based more on convenience than anything else. Sohn considers this period to be the successor of proto-Altaic, a very speculative stage that assumes Turkic, Mongolian, and Tungusic languages, among others, constitute a single language family. The evidence supporting this is sparse, and adding Korean and Japanese to the mix (the so-called "Macro-Altaic" hypothesis) is not necessarily a good idea. If our knowledge of Prehistoric Korean hinges on speculative proto-Altaic reconstructions, it is probably better to leave it at this.

Old Korean is less speculative, though not much is known about it. Sohn considers it to have started at the beginning of the Christian era and to have lasted throughout the Three Kingdoms period until the end of the Unified Silla (or Unified Sinla; 統一新羅, 통일신라 "t'ong'ilssilla", spelt "t'ong'ilsinla", is pronounced [thonilcil:a]) in the early tenth century.

Middle Korean is considered to range through the Koryŏ dynasty (高麗王朝, 고려왕조 "koryŏwangjo") period in the tenth century, and the first 200 years of the Chosŏn dynasty (朝鮮王朝, 조선왕조 "cosŏnwangjo"), and its end is marked by the start of the Japanese Invasion in 1592. Modern Korean is then considered to last from the seventeenth century through the nineteenth, which is the period after the Japanese Invasion. Contemporary Korean is considered by Sohn to be that of the twentieth century, and presumably also the twentyfirst, since his book was published in 2001.

2.2 Developments in Middle Korean

Since Korean was not properly written down until the 15th century, there is not a lot of direct evidence to go by before that (Lee and Ramsey 2011: 1). There have been attempts at reconstructing the Early Middle Korean vowel system. Based on grammatical similarity and possible cognates, Korean is speculated to be related to Japanese, the Altaic language family, and even both (Sohn 2001: 18, 29-30).

2.2.1 Vowels

Thanks to the development of a featural alphabet in the Middle Korean period, the Late Middle Korean vowel system is fairly well documented. Sohn (2001: 46) presents the vowel system shown in table 2.1. Lee and Ramsey differ in the choice of symbols: /ʌ/ for /ɔ/, and possibly /a/ for /ɑ/, but with Sohn's font, it is possible that "a" is simply a cursive "a". However, his cursive "æ" does not look like "œ".

	Front	Central	Back
HIGH	i	į	и
MID		ә	О
LOW		а	o

Table 2.1: Middle Korean Vowels

The only difference besides /a/, which is probably a font issue anyway, is the symbol chosen to represent · . The exact pronunciation of this sound is unclear, but it is clear that it was relatively open and back. Since † in Contemporary (Central) Korean is

often transcribed / Λ /, the transcription / σ / for · is less likely to cause confusion, and so in the following, I will prefer Sohn's transcription of / σ /. A minor difference in my transcriptions will be the use of / σ / rather than / σ / for —.

2.2.2 Semivowels

In addition to the seven vowel sounds, it should be noted that LMK also had two semivowels, /j/ and /w/. Like in Contemporary Korean, both of them could function as onglides, but unlike in Contemporary Korean, /j/ also functioned as an offglide with other vowels than /u/. Aside from the expected /i/, two other vowels also did not appear with the onglide /j/ in the "national speech", which should probably be taken to mean that of the capital city (although they did appear in other dialects, and apparently in the speech of children), namely /ɔ/ and /u/. The four vowels with a /j/ onglide were written just like today. (Lee and Ramsey, 2011: 159-161)

The onglide /w/ occurred with /a/, /ə/, and /i/. These were written ਤੇ, ਜ਼ੋ, and ਜ਼l. This latter symbol, ਜ਼l, most of the time represented /uj/, but where Middle Korean /β/ lenited to /w/ by the end of the period, it almost certainly represented /wi/. (Lee and Ramsey, 2011: 160-161) The offglide /j/ could appear with six of the vowels to form /ɔj/, /aj/, /oj/, /uj/, and /uj/ (written ːl , ːl , ːl , ːl , ːl , ːl). There were four possible triphthongs, according to Lee and Ramsey, but Sohn lists two more: /waj/, /wəj/, /jəj/, and (morphophonemically) /jaj/ (ɹl , ਜ਼l , ‡) (Lee and Ramsey, 2011: 161). Note the extra ones, /joj/ and /juj/ and the lack of /wi/ as Sohn (2001: 47) puts it all into the

diagram shown in table 2.2.

Diphthongs						
On-glides:	ja	jə	jo	ju		
	wa	wə				
Off-glides:	aj	əj	oj	uj	ij	эj
Triphthongs						
On-off glides:	jaj	jəj	joj	juj		
	waj	wəj				

Table 2.2: Diphthongs and Triphthongs of Late Middle Korean

It should be noted here that although both Sohn and Lee and Ramsey call these "diphthongs" and "triphthongs", there are reasons one might want to simply consider them sequences of vowels and glides. The strongest argument for this is precisely the fact that (almost) every single vowel can feature in one way or another. Since /j/ and /i/ are both close front approximants and both /w/ and /u/ are close back rounded approximants, it is not surprising that the members of each pair do not feature together (though it would not be impossible, as Eastern Norwegian /ji:/ 'give' and English /wu:/ 'woo' show). A reason for considering them diphthongs may be that the off glides would eventually go on to develop into monophthongs. However, analyzing them as glide sequences seems to be the most practical.

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2.2.3 Tone and Vowel Length

Middle Korean had three tones that were described in documents written in this period,

such as the 訓民正音諺解 (훈민정음언해, hunminjŏng'ŭmŏnhae), a translation of the

original 訓民正音 (훈민정음, hunminjŏng'ŭm) from Classical Chinese into Middle

Korean, probably from the early 15th century. (Lee and Ramsey 2011: 103, 163) The

tones were marked with dots in the following way:

(no dot: low) 손 /sòn/ 'guest'

(one dot: high) ·손 /són/ 'hand'

However, there is reason to believe that the rising tone was not distinctive, but rather a

sequence of a low tone followed by a high tone. Analyzing the tones as L and H (low

and high) and the mora as the tone bearing unit, we see that short vowels, which consist

of one mora, are able to take one of the two, whereas long vowels, which consist of two

morae, theoretically could take either LH, HL, HH, or LL. In Middle Korean, only LH

occurred, however.

Sometimes, these were the result of historical changes, like in :7 dog', which comes

from $7 \cdot | \bar{\sigma} | / k \hat{a} h \hat{i} / .$ After the /h/ dropped from this word, it came to be written as a single

syllable with a rising tone, /kǎ:j/ (or /kàáj/). Another example is : 吕 /kǒ:m/ (or /kòóm/)

'bear', which comes from ¬□·□ /kòmá/. An even more interesting change occurred when

the nominative particle 0 / i (or the copula 0 / 2, or the causative suffix 0) was

incorporated into a preceding low-pitch syllable (Lee and Ramsey, 2011: 163-164; Sohn 2001: 47-48):

$$\Box + .0$$
| = > : \Box | /ktù/+/ı́/= > /ktů:j/ 'that one.NOM'

부터
$$+\cdot 0$$
] = $>$:부:톄 /pùt^hjò/+/í/= $>$ /pùt^hjò:j/ 'Buddha.NOM'

누의
$$+\cdot 0$$
 $| \cdot 라 = > + : 의 \cdot 라 /nùùj / + /ílá / = > /nùǔ:jlá / '(male's)-older-sister.COP'$

보-+-
$$0$$
|-=>:보|-/p δ /+/ 1 /=>/p δ :j/ 'see.CAUS'

So, the number of tones may be only two, with vowel length being the distinguishing factor in the case of the rising-tone syllables, so that Late Middle Korean can be said to have had only two phonemically distinct tones, which is the view taken by Lee and Ramsey (2011: 163). However, Sohn (2001: 47-48) take the view that there were three tonemes, although he still describes the rising tone as a combination of a short and a high tone. Concerning vowel length, they all state that rising tones occurred in long vowels, but that also seems to be the only time they talk about long vowels in Middle Korean. It could be the case that there is no way to know if syllables of other tones could be both short and long. It is also possible that all long vowels in Middle Korean had rising tones, and as such were not distinguished by their length, but rather by their tones. The latter is likely the view of Sohn and the reason for his three-tone analysis, as he does seem to imply when he writes about the loss of tones in the sixteenth century that «[a]ll vowels that had a rising tone became (and still are) long, whereas vowels with a high or low tone remained short». (Sohn 2001: 48) Although it is difficult to say exactly which property was relevant for distinguishing the vowels, it may have been

either tone or vowel length, and there is a case to be made for either.

2.2.4 Vowel harmony

LMK had regular vowel harmony. So-called 'yang' or 'bright' (陽; 양 [jaŋ]) vowels only occurred with other yang vowels in the same word, while 'yin' or 'dark' (陰; 음 [uɪm]) vowels occurred with other yin vowels. The vowel /i/ was considered a neutral vowel, and could occur with both yin and yang vowels. This is shown in table 2.3, taken from Lee and Ramsey (2011: 161-162), but with their strange romanization replaced with my transcription.

Yang:	o(·)	o (_)	a(+)
Yin:	w (_)	u (¬)	ə(†)
Neutral:	i ()		

Table 2.3: Vowel Harmony Categories

Endings attached to verbs also had yang and yin forms. For example, what Lee and Ramsey (2011: 162; Sohn 2001: 49) refer to as the "locative case" particle had two forms; -이 for yin stems, and -아 for yang stems. This is similar to vowel harmony in neighbouring languages that Korean is sometimes speculated to be related to, such as Mongolian.

2.3 Development to Early Modern Korean

2.3.1 Vowel changes

Based on these reconstructions, the number of sounds in the Korean vowel system seems to have gone down from Proto-Altaic, but stayed the same in Early Middle Korean as in Late Middle Korean. But going from Late Middle Korean to Early Modern Korean in the early seventeenth century, we see it growing again, even as /ɔ/ disappears from the dialects in the central areas, which include the ones I am looking at in Seoul and Pyongyang, which, although they are usually said to belong to different dialect groups (Sohn 2001: 12), differ very little. Usually, /ɔ/ became /uu/, and sometimes /o/ in non-initial syllables, and then later, in the 18th century, /a/ in initial syllables, as evidenced by confusion in spelling: "to play (an instrument)" is variously spelled /tɔlɔjta/, /talujta/, or /talɔjta/ in the 1776 text 漢清文鑑 (한청문감, hanch'ŏngmun'gam) (Lee and Ramsey 2011: 262-263).

The sequence (or diphthong) /ɔj/ also turned into /aj/, as we would expect. However, the sequences (or diphthongs) /aj/ and /ej/ were also subsequently monophthongized to /ɛ/ and /e/, respectively, leaving the eight-vowel system shown in table 2.4 (Lee and Ramsey 2011: 262-265). Although Sohn (2001: 53) does not separate this development from that of the diphthongs /oj/ and /uj/ into /ø/ or /we/ and /y/ or /wi/, like Lee and Ramsey do, he does state that the monophthongization is not complete. To be fair, Sohn discusses the development less specifically than Lee and Ramsey, and treats Modern Korean and Contemporary Korean under the same title, whereas Lee and Ramsey

separate them under Early Modern Korean and Contemporary Korean.

[i]	_ [ɨ]	→ [u]
╣ [e]	- [e]	⊥ [o]
Η [ε]	├ [a]	

Table 2.4: Early Modern Korean Vowels

2.3.2 Tone and Vowel length

In the early 16th century, confusion of the tones became apparent. 15th century text had very consistent marking of tones, which also held true for some writings even in the 16th century, but by the middle of the century, the tone marks started being incredibly confused or even dropped altogether. In the Seoul area, tonal distinctions were probably gone by the mid 16th century. However, the long rising-tone syllables did stay long (Lee and Ramsey 2011: 266; Sohn 2001: 47-48).

2.3.3 Vowel harmony

When /ɔ/, a yang vowel, merged with /ɯ/, a yin vowel, in non-initial syllables in the 16th century, it represented the beginning decline of the Korean vowel harmony system. It made /ɯ/ a partially neutral vowel. By contrast, when /ɔ/ occasionally merged with /o/, or when it merged with /a/ in initial syllables in the 18th century, it did not affect vowel harmony, since they were all yang vowels (Lee and Ramsey 2011: 265). Sohn (2001: 54) also mentions the shift from /ɔ/ to /ɯ/ as a major cause of vowel

harmony breakdown. He also mentions the massive influx of Chinese words, where no vowel harmony was observed.

2.4 Development to Contemporary Korean

2.4.1 Vowel Changes

The main difference in the vowel system of Early Modern Korean and Contemporary Korean was that the sequences (or diphthongs) \rightarrow and \rightarrow went from /oi/ and /ui/ to /ø/ and /y/ some time after the 19th century. Lee and Ramsey (2011: 290, 294-295) dedicate a paragraph to these vowels' place in the vowel system. They state that «many young Seoul speakers do not have these front rounded vowels, pronouncing them [we] and [wi] in all phonological environments». Sohn (1994: 433) agrees, but does not include age as a factor, and later, he states again that they are pronounced [wi] and [we] by many Central speakers (Sohn 2001: 156). Sohn (2001: 53) also states it somewhat differently, saying that the monophthongization of these diphthongs is not complete.

Sohn (2001: 54; 1994: 432) sets up the Contemporary Korean vowel system shown in table 2.5 (using cursive *a* in 2001 and non-cursive a in 1994). As before, the symbols of Lee and Ramsey (2011: 295) are included for reference, in non-italics (to the right of Sohn's symbols). Y.-b. Kim (1977: 33, 41, 92) uses the same symbols that Sohn uses for Standard Language for the Pyongan dialect zone, although he sets up two systems: one "不均衡" (불균형; pulgyunhyŏng) and one "均衡" (균형; kyunhyŏng), meaning

"uneven, disproportional" and "even, proportional", respectively. The latter is the same system as that of Sohn and Lee and Ramsey, whereas the former is the same system minus /y/ and /ø/. Y.-b. Kim uses the "disproportional" system for most of his book. However, it is worth mentioning that [y] and [ø] are used in the phonetic transcriptions in Y.-b. Kim (1997), including those from Pyongyang. This 10-vowel system is thus the same for all these authors, and also for Ahn (2009), although every single one of them acknowledge that the inclusion of /y/ and /ø/ is problematic.

High	i	уü	i	u
Mid	e	øö	Э	o
Low	ε		a a	

Table 2.5: Contemporary Korean Vowels

Earlier, when discussing Middle Korean, the vowels were divided into three columns; front, central, and back. Now, although they do not explicitly mark it, it seems that both Sohn and Lee and Ramsey consider the system to have only front and back vowels, and that with the exception of the low vowels, they all have rounded and unrounded counterparts. In Sohn (1994: 432), all of this is explicitly marked. The IPA symbols they use are very fitting for making the historical three-way division symmetrical, but it makes the representation of the Contemporary Korean vowels less so. Consider that all the symbols they use for the front vowels are IPA front vowels symbols, both the rounded and unrounded ones. However, for the back vowels, they use back symbols for the rounded vowels, but central symbols for the unrounded ones. It would be more

symmetric to use the symbols shown in table 2.6 instead. Although some symbols are still mismatched in height, this reflects a phonetic difference if we go by the diagrams shown by Y.-b. Kim (1977: 38).

High	i	y	ш	u
Mid	e	Ø	Λ	o
Low	ε		a	

Table 2.6: Contemporary Korean Vowels

In discussing the Seoul standard, I will use the symbols in table 2.6. The phoneme $/\Lambda/$ is supposed to have a long counterpart in this conservative/prescriptive variety, pronounced centrally, [ə:], with the short version being back [Λ], but I will need only one, since I did not investigate vowel length, which seems to have disappeared as a distinctive feature in both Seoul and Pyongyang.

Maybe Sohn and Lee and Ramsey's symbol choices are motivated by a desire to keep the same symbols for the same vowels throughout history, which seems doubtful in light of Sohn's (1994: 432) earlier use of the same symbols in a strictly contemporary grammar. Maybe the symbols are intended to represent the relative second formant (F2) frequencies of the vowels, since rounded vowels have a lower F2 than their unrounded counterparts, and Sohn (1994: 437) himself states that /ш/ has the same tongue position as /u/. The further back a vowel is pronounced, the lower its F2 becomes, and rounding of the lips further reduces the F2 (Ladefoged 2001: 42-43; Трубецкой 1939: 87-89).

This is a possible explanation for why unrounded front vowels are much more common than rounded ones, and rounded back vowels are much more common than unrounded ones; the maximum possible contrast is achieved by having unrounded front vowels, achieving a high F2 frequency, and rounded back vowels, achieving a low F2 frequency. It is less common for low vowels to contrast in rounding, and this might be attributed to the fact that the lower in the mouth the back of the tongue gets, the smaller the possible range for manipulating F2 becomes. In any case, the relative frequency would be an inaccurate analysis at best, especially since they still use the rounded front vowel symbols, and not /\text{\text{\text{w}}} and /\text{\text{\text{\text{o}}}. It is likely that the symbols were simply chosen in accordance with tradition.

An important ongoing development is the merger of /e/ and /ɛ/ into /e/. Sohn (1994: 433) mentions this happening in southern dialects, but doesn't mention the central area. Lee and Ramsey (2011: 195) do mention Seoul, and speculate that this change could be fueled by the large-scale immigration into Seoul from Kyŏngsang because the vowels have long since merged in that area. The merger of these makes the nominative form of two pronouns identical: └\|7\|/nɛka/ 'I' and └\|7\|/neka/ 'you' would both be pronounced [nega] by most Seoulites. This problem is also found in the genitive form of these pronouns: └\|/nɛ/ and └\|/ne/, respectively. To avoid misunderstandings, new forms of the second person pronoun emerged, pronounced └\|7\|/nika/ and └\|/ni/ (Lee and Ramsey 2011: 298-299).

Lee and Ramsey also mention the difference in vowel quality depending on length in the case of † . They give as examples the readings of 笑영 [jʌŋ] and 永 :영 [jəːŋ]. My data does not seem to support this for either Seoul or Pyongyang, both of which seem to have lost the length distinction. Although this was not investigated, even the Pyongyang interviewees denied any difference between short and long vowels, pronouncing 밤 (pam) 'hazelnut' and 밤 (pam) 'night' the same. To be fair, Lee and Ramsey are describing what they refer to as the "Seoul standard", and they then go on to claim that the distinction is only lost in non-initial syllables (Lee and Ramsey 2011: 296-297). Because the short form appears to be the dominant one, I will keep transcribing † as /ʌ/ in Contemporary Korean. Sohn (1994: 445-446, 452-453) also shows length distinction in examples, and says that the orthography not reflecting length distinction «is partly responsible for many speakers below approx. 40 years old (as of 1992) to be less sensitive to vowel length».

Another difference from Early Modern Korean is the diphthong 니, which is now pronounced /ш/ in initial syllables and /i/ otherwise (by older natives in Seoul), but many younger people pronounce it /шj/ in initial syllables, which is probably a spelling pronunciation, but nevertheless one that is embraced by dictionaries like that of Naver (네이버 國語辭典 [neibŏ kugŏsajŏn], 《의사의 결과》 [ŭisaŭi kyŏlkkwa]. [2014]). In addition, the genitive particle 의 went from historical /шj/ to /e/ (Lee and Ramsey 2011: 295; Sohn 2001: 53; Sohn 1994: 450-451).

2.4.2 Vowel harmony

Although much of the Middle Korean vowel harmony system has been lost, there is still significant portions of it left, especially in onomatopoeia, where yin vowels generally have a more emphatic meaning than their yang counterparts, producing pairs like 季季 /tcoltcol/ 'trickling, murmuring' versus 季季 /tcultcul/ 'flowing, streaming'. This is also supported by Sohn (2001: 14). In addition, the yang vowels /a/ and /o/ take the yang ending - \racklet /a/ in what is often called the infinitive form, where all other vowels take - \racklet /\lambda/. However, there are signs that this distinction is eroding, with - \racklet taking over even in cases of yang vowel roots to produce constructions like \mathbb{h}-\mathbb{h}-\mathbb{h} instead of \mathbb{h}-\mathbb{h}-\mathbb{h} \text{ 'receive-INF'} (Lee and Ramsey 2011: 296).

Ahn (2009: 44-45) mentions vowel harmony as an argument for counting /y/ and /ø/ among the other vowels, despite their common realization as /wi/ and /we/, sequences of glides and vowels (which Ahn and the other authors refer to as "diphthongs"). He gives examples of /y/ (dark) contrasting with /ø/ (light) in ideophones like 퀴퀴 (k'wik'wi 'stinking') and 쾨쾨 (k'wek'we 'smelling unpleasantly'). This follows the usual patterns of light and dark vowels, where the dark vowel in a pair is more emphatic than its light counterpart. If they are regarded as /wi/ and /we/, they do not follow the system, since both /i/ and /e/ are normally dark vowels.

2.4.3 Alternative Systems

So far, I have presented a somewhat simplified view of the Korean vowel system. Both

Lee and Ramsey and Sohn subscribe to the standard quadrangular, three-level and three/four-degree system, but there are linguists that have proposed different systems, and sometimes radically different. Ahn (2009: 46-48), who uses the same 10-vowel system (with /y/ and /ø/) as Sohn and Lee and Ramsey, nevertheless presents a good overview of these proposed alternative vowel systems, which are admittedly quite abstract.

2.4.3.1 9-Vowel Systems

The first of these systems, proposed by Choi (1937), takes a triangular shape and contains four levels of sonority. The two least sonorous levels distinguish three degrees of timbre, and the two medial levels distinguish two. Ahn (2009: 46) remarks that the position of $[\epsilon]$ in this system is further back than in many other languages. It is unclear if this is intended to be understood at an abstract level, or simply on an acoustic or articulatory one, but in this vowel system $[\epsilon]$ is placed only slightly more front than $[\emptyset]^1$, so it may be an acoustic comment. Choi is cited as claiming that this represents the true nature of Korean vowels. Choi's vowel system is reproduced in figure 2.1.

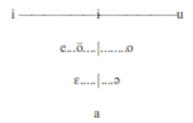


Figure 2.1: Choi's 9-Vowel System

¹ Ahn uses $[\ddot{o}]$ rather than $[\varnothing]$.

The second system comes from Martin (1954). While it contains the exact same vowels as Choi's system, Martin places them in a quadrangular system with three levels of sonority and, curiously, three degrees of timbre on the least sonorous level, but four degrees of timbre on the medial level. The most sonorous level still has only two members. Martin's system is shown in table 2.7.

i		i	u
e	ö	Э	o
ε		a	

Table 2.7: Martin's 9-Vowel System

Neither one of these two systems include the close front rounded vowel, yet they curiously include a mid front rounded vowel as what Ahn (2009: 47) calls "surface forms", which prepares us for the next vowel system, based on assumptions in Chomsky & Halle's (1968) abstract generative formalisms.

2.4.3.2 Four-vowel System

C.-w. Kim's (1968) system contains only four vowels, of which none is front; all the other vowels are derived by rules of glide deletion. C.-w. Kim's system is presented in table 2.8.

i	
Э	o
a	

Table 2.8: C.-w. Kim's Four-Vowel system

There are four rules and one constraint, which are:

- a. Off-glide (i.e. followed by a formative boundary) f^2 is allowed, but not offglide w.
- b. Vowels are fronted by following off-glide *j*.
- c. Off-glide *j* is deleted after front vowels.
- d. After a glide, /i/ becomes [u].
- e. A glide is deleted when it occurs before a high vowel with the same backness.

This highly abstract system in practice would produce the same 9-vowel system as that of Martin, if it were not flawed. The difference lies in the supposed "underlying forms" proposed, but the "surface vowels" are all the same. Curiously, there is no way to derive [y] in this system, which Ahn (2009: 48) also remarks. He also notes that this system ignores the historical development of [y] and $[\emptyset]$ from original [uj] and [oj] and vowel harmony where [y] and $[\emptyset]$ alternate. It is also completely asymmetrical, which is unusual for a vowel system. Ahn also argues that it goes against speakers' intuition, and that its psychological reality (or plausibility) is questionable at best. He shows that it is not even consistent within its own theoretical framework, and would fail to produce words like [a] ([a]) imposphered.

² Ahn uses y.

2.5 Dialectal Variation

2.5.1 Standard vs. dialect

In discussing the historical development of Korean, the focus is typically on the standard language, which tends to be whatever is spoken in the capital city. However, the standard language is not necessarily the same as the dialect spoken in the capital, and that is true in both the Republic of Korea and the Democratic People's Republic of Korea. The standard speech of both are based on the speech of educated people in Seoul, called 標準語 (표준어 [phiodzunʌ]; 'Standard language') in the ROK, although in the DPRK language use has gradually deviated from that notion of standard language, and since the capital of the DPRK was moved to Pyongyang (from Seoul) in 1966, it has used what is known as 文化語 (문화어 [munwaʌ]; 'Culture language'), which, according to Sohn (2001: 59-60), is based on the Pyongan dialect spoken in Pyongyang. Sohn (2001: 57-58, 76) lists seven dialect zones and goes on to describe the features of each. However, there is reason to believe that the descriptions are very general rather than absolute, especially when each zone covers a relatively large area. The term "dialect" (as well as "language", and even "variety") is problematic, as discussed by Richard Hudson (1996: 20-69) and Rolf Theil (Kristoffersen et al. 2005: 464-484). These are theoretical issues that are better left for the next chapter.

2.5.2 Central zone

Since my focus is on Seoul and Pyongyang, I will look at research into their respective dialect groups, starting with the oft-discussed Seoul dialect. Although the Seoul dialect is not necessarily the same thing as standard Korean, they are similar enough that they might as well go under the same name. The latter is based upon the former, and they are both considered part of the Central dialect zone.

Sohn (2001: 69-70) lists some defining characteristics of Central speech. He lists the four pronunciations of historical /wj/ as particular for this region, i.e. genitive /e/, word-initial /w/ with the reading pronunciation variant /wj/, and finally /i/. This is interesting, because it also seems to hold true for Pyongyang, which could suggest that Pyongyang speech may in fact be more accurately placed in the Central zone than in the Pyongan zone. The standard languages had the same source, and although they are not entirely the same, differences are harder to spot than similarities. Sohn continues by mentioning that /o/ is frequently raised to /u/ in final syllables of certain native morphemes, especially as part of a suffix. Among the examples is the very common word \(\perp \frac{1}{2} \) /kwuligo/ 'and', raised to \(\perp \frac{1}{2} \) /kwuligu/. Another relevant point is that historical /\(\beta\)/ has either disappeared completely or been weakened to /w/.

2.5.3 Pyongan zone

One of the most interesting features listed for the Pyongan dialects is retention of some historical diphthongs in certain words, like 오이 /oi/, 거이 /kʌi/ 'crab', and 가이 /kai/

'dog'. This is not supported in my data from Pyongyang. He also lists what he calls "umlaut and vowel fronting", to which he gives the example 메누리 /menuli/ (standard: 며느리 /mjʌnwli/) 'daughter-in-law'.

A fuller discussion of the Pyongan zone phonemic system by Y.-b. Kim (1977: 33, 41, 92) reveals that the traditional Pyongan system is the same quadrangular three-degree and three-class system as that of the Central zone, although the individual phonemes are not necessarily found in the same positions in words. For example, Y.-b. Kim describes a change from [ui] to [i] following /s/, /t͡ç/, and /t͡çh/.

2.5.4 Cultured Language

Pyongyang is on the very edge of the Pyongan zone, and has been the seat of government almost continuously since the end of Japanese rule, both unofficially and officially. It is the best educated city in the DPRK, and as such, it would not be surprising to find a much more significant influence of Central elements than Pyongan elements on the vowel system of its residents. In addition, the standard language was based on educated Seoul speech – at least until 1964, when Cultured Language was promulgated by Premier 金月成 (김일성, Kim Il Sŏng) (Sohn 2001: 78).

Even Cultured Language contains Central elements that, according to Sohn (2001: 81) differ from Pyongyang speech, such as 天地 'heaven and earth', which would be 턴디 [thjʌndi], being written and pronounced 천지 [t͡chʌndzi], as in the south. However,

vowel harmony is more conservative in Cultured Language than in southern Standard Language (Sohn 2001: 80), so that stems ending in -p, which becomes -w before vowel-initial endings, are still subject to vowel harmony in all cases, unlike the south, where only monosyllabic stems of this kind observe vowel harmony: 아름답-[arumdap[¬]] 'beautiful' becomes 아름다와 [arumdawa] in Cultured Language, but 아름 다워 [arumdawa] in Standard Language, but 돕- [t^hop[¬]] 'to help' becomes 도와 [t^howa] in both. Note that, although spelled with the symbol for /o/, ㅗ, ㅚ still represents /wa/, and ㅟ /wʌ/. Both kinds take the -운 /un/ ending (as opposed to -은 /un/, which is the regular ending) when they modify nouns.

2.5.5 Vowels of Cultured Language

Although Sohn lists many differences, including in pronunciation, he does not bring up vowels much. He mentions vowel fronting and what he calls "umlaut" in discussing the Pyongan zone dialects, but he does not specify whether this applies to Cultured Language or not. Y.-b. Kim does not seem to mention Cultured Language at all, but from his description of the Pyongan zone phonemic system matching Sohn's (and Lee and Ramsey's) description of the Central zone system, we can extrapolate that the vowels of Cultured Language ought to be identical to those of Standard Language. This will make any differences in the phonemic systems all the more interesting.

2.6 Working Hypotheses

After considering the development of the Korean vowels, we have arrived at what is commonly accepted as the Contemporary Korean vowel system, which ought to be valid for both the Central and Pyongan dialects. Any data must be compared to this system, which is probably the traditional one in both areas. Any differences likely represent relatively recent changes.

From what we have discussed so far, we can postulate a few working hypotheses. First of all, as we have seen in the literature, there is an ongoing merger of /e/ and /ɛ/ in Seoul. My Pyongyang interviews suggest that this is not the case in the DPRK capital, so we should investigate whether or not this is the case. Since the possible phonemic status of /y/ and /ø/ (rather than considering them the sequences /wi/ and /we/) is mentioned by all the authors, it is possible that we should look at their realizations as well, and see where they stand in the system. A testable hypothesis could be that we will find this realization in sibilant/palatal environments.

As mentioned in the introduction, I showed a Korean friend how to make a vowel chart, but got strange results when plotting her vowels onto it: /o/ and /u/ kept overlapping. The more I listened to Korean, the more I had to admit that /o/ was likely articulated much closer than I had been led to believe, and we should investigate how /o/ differs from /u/ in both Seoul and Pyongyang. Also mentioned in the introduction is a south Korean friend's description of Pyongyang /o/ and /n/ as sounding alike, which should

also be investigated – perhaps as another possible merger. It should be noted that my Pyongyang interviews indicate that they have not merged.

From Sohn's and Lee and Ramsey's descriptions of the Korean vowel system of Seoul, and Kim's matching one of Pyongan, as well as my previous experiences and interviews, we can postulate the following hypotheses:

- The distinction between /e/ and / ϵ / is lost in Seoul, but preserved in Pyongyang.
- The front vowels [y] and [ø] occur as allophones of /wi/ and /we/ after sibilants/palatals (/s/, /s²/, /t͡ç/, /t͡çʰ/, and /t͡ç²/) in both Seoul and Pyongyang.
- The back vowels /u/ and /o/ are distinguished from each other by the F2, rather than F1, value in Seoul.
- The back mid vowels /o/ and /\u00e1/ have merged in Pyongyang.

Additionally, we must consider any other differences we find in the material, whether consistent for each city or not, and consider why the differences are found.

3. Theory and Method

3.1 The Object of Study

As touched upon in the previous chapter, the object of study may be slightly difficult to pin down. According to Hudson (1996: 18-19), it may be impossible to say where the boundaries of a language go. In fact, he questions the assumption that languages are discrete, identifiable entities, consisting of dialects which can be subdivided further until we reach the individual and find the "smallest dialect". Hudson explores that and many other related questions.

3.1.1 Linguistic items

In order to distance ourselves from the concepts of *dialect* and *language*, Hudson (1996: 21-22) introduces the technical term «linguistic item». The definition of this depends on what view one has of language structure, but Hudson writes that everyone would accept that there are items of vocabulary, which we may call "lexical items" or "lexemes", and that there are also sound-patterns within these items of vocabulary, in addition to larger syntactic patterns that they are used in. He writes that, as far as sociolinguistics is concerned, there is no important difference between the three, even though "non-social" linguistic work tends to treat them quite separately in theories about how language

"works" (with a typical view being «that lexical items are listed (in a lexicon), but that sounds and constructions are defined ('generated') by general rules and principles»).

Hudson (1996: 43) considers that there may be a general difference between items of pronunciation and other linguistic items in terms of variation. He points out that standardization is closely associated with writing, so it would not be surprising to find that pronunciation is less liable to standardization than other items (morphology, syntax, vocabulary). It is possible, then, that items of pronunciation are generally used to indicate our point of origin, implying that we originate from a certain group, whether we actually did or not. The other items may then, in contrast, be used to identify our current status in society, showing for example how much education we have had. This is conjecture by Hudson at this point, but he points out that there is enough evidence for differences between pronunciation and other areas of language to make it worth looking for general explanations. If his hypothesis is any indication, we should expect to find very consistent results in the data from the Pyongyang and Seoul speakers, respectively.

3.1.2 Varieties of language

Another useful term that Hudson (1996: 22-24) introduces is 'variety'. He introduces it by asking us to think of "language" as a phenomenon including all the languages of the world, and says that the term *variety of language* (or simply *variety*) can be used to refer to different manifestations of it. He likens it to the way 'music' can be thought of as a general phenomenon even when we distinguish different varieties of music. What

makes one variety of language different from another is the linguistic items that it includes, and he defines it as «a set of linguistic items with similar social distribution». This definition then covers anything we would normally call 'languages', 'dialects', or 'registers', but there is still no consistent basis for distinguishing between the latter three or similar terms.

In considering whether a variety is a "language", Hudson (1996: 30-36) talks about what popular usage of "language" and "dialect" is in English. English speakers distinguish them in two ways: by size and by prestige, such that a language may be larger than a dialect, or it may be more prestigious. In the first case, a language may be made up of several dialects, with one of them being considered standard. In the second, the most prestigious variety is a language, and any other variety is a dialect. In the latter case, standard languages are possibly the only *true* languages. In the former case, his objection is that size is relative, and even attempts at making it less relative by means of *mutual intelligibility* are doomed to fail, for several reasons:

- Even popular usage does not follow this criterion consistently.
- Mutual intelligibility is a matter of degree. It ranges from total intelligibility (100%) to total unintelligibility (0%). Any number for how high up this scale two varieties need to be in order to count as members of the same language must be arbitrary.
- Varieties may be arranged in a *dialect continuum*, meaning a chain of adjacent varieties in which each pair of adjacent varieties are mutually intelligible, but pairs

taken from opposite ends of the chain are not. If varieties A and B are mutually intelligible, and varieties B and C are mutually intelligible, varieties C and A are not necessarily mutually intelligible.

• Mutual intelligibility is really a relation between people, since it is they, and not the varieties, that understand one another. The understanding depends on qualities like motivation (how much person A wants to understand person B) and experience (how much experience they have with the variety they are listening to). The biggest problem is also that these qualities do not necessarily need to be reciprocal: A and B do not necessarily have the same degree of motivation or the same amount of experience with each other's varieties.

This means there is no real distinction that we can draw between "language" and "dialect" in the "size" sense. An even more fundamental question is how clear the boundaries between varieties are, and according to Hudson (1996: 38-45), they are not. He explains it by considering the family tree model (Hudson 1996: 37-38) and showing that we cannot keep subdividing until we reach the individual level, because if that were the case, isoglosses drawn on a map would never intersect; yet they do. Explanations for this include wave theory, where changes in language are assumed to spread from centres of influence to nearby areas (like a stone dropped in a pool causes a wave to spread). Hudson (1996: 39-41) suggests the metaphor of different plant species in a field, rather than a rock dropped in water, because 'waves' of linguistic influence freeze when their point of origin is not strong enough to sustain them; i.e. people do not want

to identify themselves with the group that uses the item in question. Like geographical dialects and languages, Hudson (1996: 41-42) considers social dialects and accents to be problematic to delimit for similar reasons.

3.1.3 Speech Communities

Hudson (1996: 24-30) considers some differing definitions of 'speech community', perhaps most notably the common «all the people who use a given language (or dialect)», which does not help unless we can delimit the language or dialect, and number (6), which is an approach that «avoids the term 'speech community' altogether, but refers to groups in society which have distinctive speech characteristics as well as other social characteristics».

Supporters of the latter approach include Robert Le Page, who is quoted by Hudson (1996: 26):

«Each individual creates the systems for his verbal behaviour so that they shall resemble those of the group or groups with which from time to time he may wish to be identified, to the extent that

- a. he can identify the groups,
- b. he has opportunity and ability to observe and analyse their behavioural systems,
- c. his motivation is sufficiently strong to impel him to choose, and to adapt his behaviour accordingly,
- d. he is still able to adapt his behaviour.»

Hudson proposes that it is doubtful that the notion 'speech community' is helpful at all.

He says that the term may in fact mislead us by implying the existence of "real"

communities "out there", which we could discover if only we knew how. He gives some reasons for why this is not a good idea:

• Mismatch between subjective and objective reality.

We have a vague idea of the way people speak in distant places that we have little experience with, so the least we can say is that if there are objective communities, they are somewhat different from the communities that we recognize subjectively.

• Evidence against community grammars.

Behind all the definitions but number (6) lies the assumption that members of the community are linguistically "the same" in some sense, either in their use of language or in what they know and think about language. However, people do not even know the linguistic details of other people living in the same city, let alone hundreds of miles away. This is often the case even for members of the same family, especially if we consider differences between generations.

Evidence for networks

The community that the definitions seek to leave us with has a boundary, however vague, yet social networks have no boundaries at all. Instead, they typically have a

small cluster of people near the centre, and several others "hanging on" more or less closely, while maybe hanging on to neighbouring networks at the same time.

• Small size of the most important communities

The most important communities are very small – family, friends, neighbours, colleagues at school or work, and any clubs or organizations. Communities like these are the ones that influence an individual's speech the most, especially as children, but they are far smaller than the "speech communities" that linguists usually talk about.

Hudson's (1996: 29) conclusion, then, is that our sociolinguistic world is not organized in terms of objective 'speech communities', although we may think subjectively in terms of communities or social types such as 'Londoner' and 'American'. He describes the search for a "true" definition of the speech community or the "true" boundaries thereof as «a wild goose chase».

He also answers the question of where language is; in the community or in the individual. Hudson's (1996: 29-30) view is that it is in the individual, because each individual is unique and because individuals use language so as to locate themselves in a multi-dimensional social space, among other reasons. He includes this quotation from Guy (1980): «...language, while existing to serve a social function (communication) is nevertheless seated in the minds of individuals.»

3.1.4 Relevance for Korean

All of this has implication for the varieties of Korean that are currently being investigated. We have seen that terms like "language", "dialect", "register", or "speech community" do not adequately delimit the object of study. It is nevertheless possible to analyze the pronunciation of individuals from Seoul and Pyongyang while attempting to cover some common variables, such as gender and age. We know from Sohn (2001: 59-60) that Standard Language (標準語; 丑준어, p'yojun'ŏ), is the definite standard language in the Republic of Korea and Cultured Language (文化語; 문화어, munwha'ŏ) is that of the Democratic People's Republic of Korea. Sohn (2001: 79) also states that this goes for pronunciation.

However, both Sohn and Lee and Ramsey also describe the vowels of the so-called 'Seoul standard', which they do not appear to define clearly, but which might be taken to mean the prescribed pronunciation used by news anchors and other specially trained people. An indication of whether an individual from Seoul tries to follow this standardized pronunciation may be the distinction between \$\frac{1}{2}\$ /e/ and \$\frac{1}{2}\$ /\$\(\epsilon\)/ which appears to have disappeared among young speakers in Seoul (Sohn 1994: 433; Lee and Ramsey 2011: 195). In the event that we do find a distinction between these two, it might be a good idea to consider that/those speaker(s) separately.

3.2 Phonological Theory

The phonological theory employed in this thesis is essentially classic phoneme theory of

Tpyбецкой (Nikolai Sergeyevich Trubetzkoy) in his posthumously published *Grundzüge der Phonologie* (Трубецкой 1939), in which he made the case for establishing phonology as a science separate from phonetics, which was not common practice at the time (Трубецкой 1939: 9-10). Especially relevant to this thesis will be the notion of *phoneme*, particularly what concerns vowels.

3.2.1 Phonetics and Phonology

Трубецкой (1939: 7) writes that instead of a single "study of sound", there should be instituted two different studies; one directed toward the act of speech, and the other toward the language system. They would have to use different methods of investigation according to their subject matter. The study of sound pertaining to the act of speech, concerned with concrete physical phenomena, would have to use the methods of the natural sciences, while the study of sound pertaining to the system of language would only use the methods of linguistics, humanities, or the social sciences. Трубецкой calls the former *phonetics* and the latter *phonology*.

Although he mentions that the words are used differently in English, with "phonetics" (Трубецкой 1939: 12) or, in the 1969 translation into English, "phonemics" (Трубецкой 1969: 9) being used for "Phonologie", this is no longer the case, and the terms are used much the same in English and German.

3.2.2 Phoneme

Трубецкой (1939: 34) defines the phoneme as phonological units which cannot, from the standpoint of a given language, be further divided into smaller consecutive phonological units. This means that the phoneme is the smallest phonological unit of a given language.

He warns that the phonemes are not to be considered building blocks that words are made of. Rather, each word is a phonic entity of its own, a *Gestalt*, and is recognized by its entire appearance. Phonemes are the distinctive marks that make it possible to distinguish any word from all other words. A word can be analyzed completely into phonemes, and it consists of phonemes in the same way a tune composed in a major scale consists of the notes in that scale, although each tune will contain something that makes it a specific musical configuration (Трубецкой 1939: 34-35; 1969: 35).

Трубецкой (1939: 35) says that although the German *ich* sound and *ach* sounds are nondistinctive, they contrast with *k*, as in examples like *stechen-stecken*, *roch-Rock*. From this, we see that producing a complete closure (a plosive) or merely a stricture (a fricative) is what distinguish meaning; not whether the constriction happens more in the back or in the front (or middle). The former is then *phonologically relevant*, and the latter *phonologically irrelevant*. The phoneme, then, is *««the sum of the phonologically relevant properties of a sound (Lautgebilde)»* (Трубецкой 1969: 36). He calls the various realizations of the phonemes *Varianten*, which are what we now call *allophones*.

The various realizations of the phoneme /x/ in German are thus [x] and [c] (or [x], since he describes the stricture as occurring in the centre of the palate), although Трубецкой does not seem to have a special convention for indicating phonological and phonetic transcriptions, and the phonetic symbols he uses are not the same as the IPA used today.

Трубецкой (1939: 37-38) warns that, although there have been attempts at defining the phoneme in psychological terms, and indeed this is the way it was first defined, linking it to vague terms like "psyche", "linguistic consciousness", and "empfinden" means you can never actually know what to consider a phoneme, and so the definition ought to be linked to the language system instead.

3.2.3 Rules for Designating the Phoneme

Трубецкой (1939: 42-47) explains four rules for deciding what is a phoneme and not. These should be laid out here.

I. If two sounds in the same language occur in exactly the same sound environment, and can be switched out for one another without that causing any changes to the lexical meaning of the word, then the two sounds are *Varianten* (allophones) of the same phoneme.

He goes on to mention that there may be distinguished different types of this, so that

^{3 &}quot;Sensory perception". (Трубецкой 1969: 39)

some of them may be considered regionalisms, and others pathological, etc.

II. When two sounds occur in the same position and cannot be interchanged without a change in the meaning of the word, or without rendering the word unrecognizable, then the two sounds are phonetic realizations of two different phonemes.

Of course, the degree of "Unkenntlichmachung" may vary, and it may or may not be possible to figure out what was meant.

III. If two acoustically or articulatorily related sounds of a language never occur in the same sound environment, then they should be considered combinatory variants of the same phoneme.

IV. Two sounds that otherwise meet the conditions of Rule III can still not be regarded as variants of the same phoneme if, in a given language, they can occur next to each other, meaning they are part of a sound sequence in those positions where one of the sounds also occurs in isolation. He illustrates this with the example of [1] and [9] in (non-rhotic) English. Although [1] occurs only before vowels, and [9] never does, they cannot be considered variants of the same phoneme, because they can also occur together, as in profession> [ph.191felph], in the same position where [9] can occur alone, as in perfection> [ph.91felph].

⁴ Meaning "made-unrecognizable-ness".

3.2.4 Distinctive Oppositions

Although the above is sufficient to decide what the phonemes of a language are, Трубецкой (1939: 59) also considers that we must determine what the distinctive features of each phoneme are. That is to say, all the phonologically relevant properties of a phoneme, particularly those which serve to distinguish it from phonemes with related properties. Tpyбецкой describes the German /k/ as a *tense nonnasalized dorsal occlusive*. He considers that the phonologically relevant features of this phoneme cannot include "velar", because it also has a palatal articulation in certain environments. Instead, the phonologically relevant features must include "dorsal", but this is of course not enough, since there are other dorsal phonemes too, /g, ŋ, x/. Of the four dorsal phonemes, only /x/ is not a *Verschlußlaut* (an occlusive). Only /ŋ/ is nasalized, and finally he describes /k/ as "tense" to distinguish it from the "lax" /g/.

Трубецкой (1939: 59-61) proceeds to talk about classifications of the oppositions. He says they should be classified on the basis of their relationship to the entire system of oppositions as *multilateral* and *bilateral*, *isolated* and *proportional* oppositions. It is not the phonemes that play the major role, but rather the distinctive oppositions that make up the phonemes by virtue of the definite order or structure in the system of distinctive oppositions.

An opposition is formed by two things simultaneously sharing a property and having certain properties that distinguish them from each other, as illustrated with German /k/

above. Two things that don't share a single property, such as German /g/ and /h/ (or, as Трубецкой says, an inkpot and free will), do not form an opposition with each other. He explains that in the case of bilateral oppositions, the properties shared by the opposition members are only common to these two members of the system, whereas those in multilateral oppositions can share properties with more than one other member of the system. For example, the opposition /t/-/d/ is bilateral (in German), because they are the only dental occlusives, but the opposition /b/-/d/ is multilateral, because there exists another member of the system that shares the property of what Тубецкой calls "schwache Verschlußbildung" (weak occlusion), namely /g/. Each phoneme must take part in multilateral oppositions, but participation in bilateral oppositions is not necessary.

Although Трубецкой (1939: 60-61) states that the distinction between bilateral and multilateral oppositions is extremely important for the general theory of oppositions, it seems to me that a bilateral opposition is simply one extreme of the logically possible number of oppositions (the lower one, since nothing can be in a distinctive opposition to itself), and not otherwise noteworthy.

Трубецкой (1939: 63) also stresses the importance of proportional and isolated oppositions. An opposition is proportional if the relation between its members is identical to the relation between the members of another or several oppositions in the same system. He gives as an example the relation in German between /p/ and /b/, which

is proportional because the relation between the two phonemes is identical to that between /t/ and /d/, as well as /k/ and /g/. The opposition /p/-/ \int / is isolated, on the other hand, because no other pair of phonemes that relate to each other in the same way that /p/ relates to / \int / exists in German.

Трубецкой (1939: 69-70) goes on to discuss classification of oppositions on the basis of the extent of their distinctive force. Again he introduces a binary distinction: constant and neutralizable oppositions. He considers that in Danish, [æ] and [e] can occur in any position, whereas in Russian, [e] only occurs after /j/ and palatalized consonants, with [ɛ] occurring in all positions besides that one. So Danish /e/ and /æ/ are different phonemes, whereas Russian [e] and $[\varepsilon]$ are variants of the same phoneme. However, in French, [e] and [ɛ] are only distinctive in final open syllables, and their distribution is otherwise predictable. That is to say that these two vowels must be considered phonemes only when they occur in final open syllables, and combinatory variants of a single phoneme in all other positions. This is what Трубецкой calls a neutralized opposition, and he names the positions where oppositions are neutralized *neutralization* positions, and positions where oppositions are relevant relevance positions. He notes that although it does not take phonetic training to take notice of constant oppositions, it is often difficult to indicate, of a pair in a neutralized opposition, which of the two has just been produced. Трубецкой (1939: 71-74) describes four main cases of realization of such neutralized oppositions: (1) those in which the archiphoneme is realized differently from either of the opposition members; (2) those in which it is realized like

one of the members; (3) those in which the choice of representative opposition member is conditioned internally; (4) those in which both opposition members represent the archiphoneme in different environment.

3.2.5 Distinctive Phonic Properties

Трубецкой (1939: 80-82) considers that the above oppositions are not specifically phonological ones, but are valid for any system of opposition, such as the Latin alphabet. They must be supplemented by specifically phonological principles of classification. A phonological opposition, he says, consists of a *distinktiver Schallgegensatz*⁵. "Distinctiveness" in the phonological sense is the capacity to differentiate meaning, and is something that requires no further classification. He notes that phonetic terminology is mostly sound-physiological rather than acoustic, but adds that this is not a problem, because only the unambiguous designation of phonic properties is important. Acoustic terminology is also much more sparse than its physiological counterpart.

Трубецкой (1939: 82-86) divides the distinctive phonic properties into three classes: vocalic, consonantal, and prosodic. He notes that while vowel phonemes and consonant phonemes consist of distinctive vocalic and consonantal properties, respectively, no phoneme consists exclusively of prosodic properties. In a given language, prosodic properties may combine with a single vowel or consonant phoneme, or even with an

^{5 «}Distinctive opposition of sound.» (Трубецкой 1969: 90)

entire sequence of phonemes. Трубецкой says that what characterizes *consonants* is the production of an obstruction and the overcoming of such an obstruction, whereas *vowels* are characterized by the absence of any obstruction. The consonantal properties can thus be called *properties based on the manner of overcoming an obstruction*, and those of vowels *properties based on degree of aperture*.

However, there are other properties that are not specifically vocalic or consonantal. *Properties of localization* are properties that both consonants and vowels may have, in that it indicates *where* the obstruction or aperture occurs. Another such shared property is *properties of resonance*, which indicate the type of phonation. Tpyδeqκoй gives the example of French /o/, which has a specific property based on degree of aperture in opposition with /u/, a specific property of localization in opposition with /ø/, and a specific property of resonance in opposition with /õ/. However, these "three coordinates" need not be present in every phoneme, as illustrated with German /o/, which does indeed contrast with /u/ and /ø/, but distinctive oppositions between nasalized and nonnasalized vowels are not found at all in standard German.

Nevertheless, each of the properties that make up a vowel or consonant phoneme must invariably belong to one of these "three coordinates".

3.2.6 Vocalic Properties

At this point, we leave Трубецкой's discussion of consonants and prosodic units entirely and concentrate on his discussion of vowels. He writes that among all speech

sounds, vowels can most easily be analyzed acoustically (Трубецкой 1939: 86-87). The degrees of aperture correspond acoustically to the degree of "saturation" or "sonority". He notes, however, that the same acoustic effects can be achieved with the articulating organs in a different position, so the parallelism between degree of saturation of the vowel and degree of lowering the jaw is not always complete. He suggests that since linguists are ultimately more interested in the acoustic effect, it might be a good idea to replace physiological terms pertaining to vocalic properties with acoustic ones.

The properties of localization correspond acoustically to various gaps in the series of *partial tones* (i.e. formants), so that front vowels show an increase of the higher and suppression of the lower partial tones, and in back vowels, the higher partial tones are suppressed. He does not seem to specifically mention lip rounding suppressing the higher partial tones, but he does mention the parallelism between tongue and lip movement. (Трубецкой 1939: 86)

Трубецкой (1939: 86-87) introduces the discussion of vowel systems by considering that a language with only one vowel would have to allow numerous consonant combinations, because otherwise, the vowel would not contrast with anything, and it could not be considered a phoneme. With consonant combinations, however, it could be considered a phoneme by being in opposition with a *Vokalnull* (null vowel). There are several known vowel systems – some more common than others. He introduces three basic types from the perspective of degrees of aperture and vocalic localization series:

a) *linear systems*, with vowel phonemes that have specific degrees of sonority (i.e. vowel height, or closeness), but no distinctively relevant properties of timbre (i.e. vowel backness and/or lip rounding); b) *quadrangular systems*, where all vowel phonemes have distinctive properties based on degree of both sonority *and* timbre; c) *triangular systems*, with distinctive properties of both sonority and timbre, with the exception that timbre is irrelevant for the maximally open vowel phoneme.

Трубецкой (1939: 87-89) explains that there are two possible oppositions of timbre, namely that between rounded and unrounded vowels and that between back and front vowels. They can also occur in combination, so that we can distinguish up to eight classes of timbre: rounded, unrounded, front, back, front rounded, back rounded, front unrounded, back unrounded. Although all eight do occur in different languages, a single language may only have up to four of these classes. Rounded vowels are acoustically "darker" than unrounded ones, and front vowels "clearer" than back vowels. It is therefore possible to say that any multiclass vowels system (i.e. excluding systems where timbre is not distinctive) has a maximally dark and maximally clear class of timbre (the extremes), which may have one or two medial classes between them. An objection to this is that a three-way distinction of lip rounding in close front vowels is found in large parts of Scandinavia. Although only four close vowels are distinguished and /i/ and /u/ predictably act as the extremes, the medial vowels, conventionally transcribed /y/ and /u/, are both front vowels with different degrees of rounding, so that /i/ is unrounded, /y/ has "open" rounding, and /u/ has "close" rounding and may

have slight retraction of the tongue. See Theil (1991: 88-89) for a discussion of this. Nevertheless, the system does end up with only two classes between the extremes, though not the way one would expect.

Трубецкой (1939: 96-99) mentions that all vowel systems distinguish vowels by sonority/aperture. Most commonly, three degrees of aperture are distinguished (as in e.g. Latin), but no less than two (as in e.g. Arabic). His examples even includes the vowel system of Gweabo (spoken in Liberia), which seems to have a *six-degree* (two-class) triangular vowel system (Трубецкой 1939: 101). He qualifies this by adding that one has to consider that the "bright" and "muffled" vowels are evaluated as an opposition based on the degree of sonority for this to be the case.

According to Трубецкой (1939: 102), in every vowel system the maximally dark and the maximally clear class of timbre always contains the same number of degrees of sonority. He does mention systems where the phonetic realization of the vowels is not symmetric, such as in Tonkawa, spoken in Texas, where a four-vowel quadrangular system is found (i-o, e-a) (Трубецкой 1939: 98). His statement still holds true, because the same number of degrees of sonority is distinguished. Further, they can be considered to belong to the same categories of close/nonclose or open/nonopen regardless of their phonetic realization.

Трубецкой's statement about a vowel system always containing the same number of

degrees of aperture in the maximally dark and clear classes of timbre lets us make certain predictions. In a given language with the most common five-vowel triangular system (/i/-/u/, /e/-/o/, /a/), if all vowels may occur in stressed syllables, but the distinction between /i/ and /e/ is neutralized in unstressed syllables, the distinction between /u/ and /o/ is expected to be neutralized as well, resulting in a three-vowel triangular system for unstressed syllables. This is indeed what we find in certain Greek dialects (Трубецкой 1939: 102). It is also a strong hypothesis that can easily be tested. If there were to be found a system that distinguishes three degrees of sonority in the maximally clear classes, but only two in the maximally dark classes, then it would have to be downgraded from a hypothesis to a common tendency at best.

Further, Τργδειικοй says that in three-class vowel systems, the medial class of timbre must contain as many or fewer degrees of aperture than the two extremes; never more. He says that quadrangular systems almost always distinguish fewer medial-class degrees of aperture, and that this is not rare for triangular systems either. Τργδειικοй gives an example of the Norwegian vowel system for this, but while it is doubtful that his description of the phenomenon itself is inaccurate, it must be pointed out that his representation of the Norwegian vowel system is inaccurate; cf. Theil (1991: 113). In fact, the main reason for his confusion is likely the fact that three close front vowels are distinguished, although the orthography (and he does use the orthographic symbols) does not help either: while <u> does represent /u/ in many words, it usually represents /θ/, and while <o> does represent /o/ in many words, it usually

represents /u/. The Norwegian vowel system may more accurately be presented as a three-class quadrangular system, as shown in figure 3.1 (with orthography in parentheses, and vowel system flipped to conform to conventional modern presentation), though /y/ and /u/ do make this somewhat problematic. Трубецкой's prediction still holds true – the extreme classes still have the same number of distinct degrees of aperture.

Figure 3.1: Norwegian Vowel System

Трубецкой (1939: 105) also does not neglect to mention that what he calls an "unbestimmter Vokal" (a mid central vowel, commonly referred to as a "schwa") appears in many systems. He considers that it often occurs in partial systems, but recognizes that it can enter into a special opposition with the maximally open vowel of triangular systems, such as in Bulgarian, which can be interpreted as a dual triangle system where one triangle consists of /i/-/u/-/ə/ and the other consists of /e/-/o/-/a/.

3.3 Method

The initial plan was to gather data from male and female informants from roughly three generations in both Seoul and Pyongyang. That proved impossible for several reasons:

^{6 «}Indeterminate vowel» (Трубецкой 1969: 113)

- While young informants around 20 years of age were easy to find in Seoul, I could not find any middle aged or older volunteers. I had a contact in Seoul who was going to help me with this, but she canceled because of a death in the family.
- Traveling to Pyongyang outside a group would be much too expensive.
- I could not get in touch with any north Korean defectors living in south Korea, and while another contact in Seoul was going to help me with that, he disappeared.

With this in mind, I decided instead to combine the data I could get with the wealth of Korean material freely available online. This has some obvious drawbacks, in that it is more difficult to account for variables such as educational background and social class, however, this is intended to be a quick scan rather than an in-depth survey, and should be sufficient to lay the basis for potential future research.

3.3.1 Acoustic Analysis

The analysis was done with Praat, a program for analyzing audio files and provide detailed acoustic analyses including pitch, intensity, and most importantly in this case, formants. Pitch and intensity are not relevant for the data in this thesis. Vowel formants, on the other hand, are of paramount importance, as they form the bulk of the data this thesis is based on. The formants were extracted manually from Praat by loading up the audio files one by one, zooming in on each word or syllable, locating the most stable areas of each vowel, and instructing the program to output the F1 (formant number

one), F2 (formant number two), and F3 (formant number three) values at a given point in the stable section. The numbers were then put into a spreadsheet as shown in figure 3.2, with the word the sample is from, as well as a number indicating the syllable. This syllable count follows the written form, so that each Korean or Chinese character counts as a syllable, and if a syllable is not pronounced, it is still counted – though not sampled. The values were plotted onto a chart, ordered by their F1 and F2 values and arranged in the manner of the well-known vowel quadrilateral, with front vowels on the left and open vowels on the bottom.

Word	Vowel	F1	F2	F3	Word	Vowel	F1	F2	F3
온나라1	/o/	363	925	2502	人民軍3	/u/	322	1163	2376
民族2	/o/	426	1315	2400	將軍2	/u/	271	1304	2303
金日成同志4	/o/	313	943	2553	여러分3	/u/	319	1270	2367
金正日同志4	/o/	350	810	2485	우리는1	/u/	298	891	2209
하고2	/o/	353	929	2183	人民軍3	/u/	289	1170	2536
온나라1	/o/	505	906	2482	主體1	/u/	440	1304	2423
모든1	/o/	522	891	2564	人民軍3	/u/	290	1065	2540
幸福2	/o/	373	829	2428	大元首님3	/u/	332	1316	2453
○ = 2	/o/	411	1023	2437	우리1	/u/	300	978	2302

Figure 3.2: Spreadsheet Values

This makes it easy to spot anything unexpected. The charts will be presented in the next chapter. Although the charts only take into account F1 and F2, I sampled F3 as well, because if the F2 value is doubtful, a completely normal F3 value helps determine whether it is likely to be right anyway, since F2 has a tendency to merge with F1 or F3 in Praat, as shown in figure 3.3, where an F1 merges with an F2.

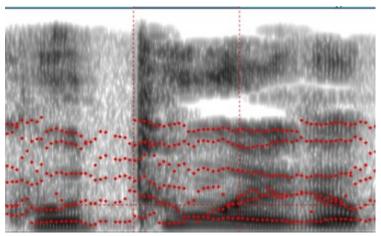


Figure 3.3: Formant Merger

3.3.2 Problems with the Data Analysis

Most of the problems with the data analysis are minor, and closely tied to Praat. As accurate as it is, Praat does occasionally analyze incorrectly. In those cases, it is usually easy to spot, and comes down to the quality (or lack of quality, if you will) of the recording. Following are the most common mistakes.

3.3.2.1 Extra Formants

Occasionally, background noise is strong enough that Praat interprets it as a formant, as shown in figure 3.4. If F1 is interpreted correctly, but background noise is interpreted as a formant in between F1 and F2, that means the actual F2 will be labeled F3 instead, and the actual F3 will be labeled F4, and so on, because Praat always assigns numbers from the bottom up. It is possible to increase and decrease the sensitivity with which Praat interprets formants, but usually it is easy to see where the actual formants are, so I have kept the sensitivity at 6 formants as much as possible.

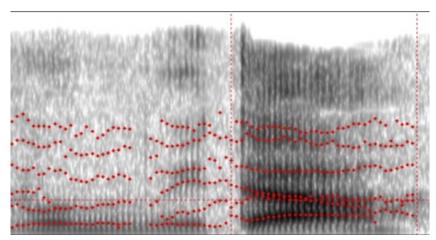


Figure 3.4: Extra Formant

Occasionally, the false formants occur very close to the actual ones, making it difficult to tell whether they are interfering or not. In such cases, it was usually enough to position the cursor near the line of the actual formant and compare Praat's interpretation to see if it matched the actual or false formant more closely. If that did not help, I skipped that vowel.

3.3.2.2 Merged Formants

When two formants have values that lie very close together, Praat often interprets them as one formant, as can be seen in figure 3.3. In cases where this occurred, I increased the sensitivity, but if they were still merged into one, as sometimes happens, I skipped that vowel. It was more difficult to tell whether formants had merged when they were both high, but I compared the formants with others of the same phoneme to make sure.

3.3.3 Advantages

An advantage with using this method of entering the values into a spreadsheet to display them in the shape of a vowel quadrilateral is that it makes it easy to locate anomalies, but it also makes it easy to see the general areas of each vowel, and thus the vowel system itself. The more an area is covered in points, the more we can be sure the area is a good representation of the range of possible pronunciations for the vowel in question. This makes comparing the phonetic realizations of vowel systems somewhat comparable, but it is important to keep in mind that people have differently shaped speech organs, so we cannot simply map them on top of each other. In general, men have bigger throats, resulting in lower formants and thus a smaller range, whereas women generally have smaller larynges, giving them higher formants and a larger range of possible realizations (Ladefoged 2001: 40, 45).

3.3.4 Seoul Data

Although I could only get two young informants from Seoul – one man and one woman – I will detail the collection process here. I first decided to try eliciting three rough levels of formality, inspired by similar approaches by Hognestad (2012: 40). I did the recordings in one sitting with three phases; each with a task for the informants. In the first, the informants read a list of words, available in appendix B. In the second, they were asked to read a paragraph, available in appendix C. In the third and last phase, they were asked questions that they had to answer, available in appendix D. The two

other informants are announcers for KBS News (KBS 뉴△ [k'eibiesŭ nyusŭ]) and were found on YouTube.

3.3.4.1 The Word List

I prepared the list of words and made sure to include every vowel phoneme several times. I also made sure to include every modern vowel grapheme of the Korean orthography at least once. All but one of the words, 이를 /jɛ/ (a nonsense syllable), were relatively common lexical words that the informants were assumed to understand. The list was initially planned to be kept as ideologically neutral as possible, in order to avoid potential offense to any of the informants, but when it was clear that I could not use the same method in Pyongyang, I decided to include the word 民主義 (巴주주의 /mintçutçui/) 'democracy' because it has two instances of /u/ following sibilants, and the final syllable is written 의, which represents three different phonemes (prescriptively /i/ in this case, but can also represent /uu/ and /e/, as well as the reading pronunciation /uqi/). I made a slideshow that I manually flipped through once the informant had read the previous word while recording.

3.3.4.2 The Paragraph

I had a Korean native speaker write a paragraph that included all the vowel phonemes (though not necessarily all vowel graphemes), including /wi/ and /we/. I specifically asked that both $\frac{1}{2}$ /e/ and $\frac{1}{2}$ /e/ be included, and for the vowels /u/, /o/, / Λ /, and /uu/ to be well represented. The informants were asked to read the text and not to worry about

making mistakes; in the event that they did make a mistake, they were to simply correct it and keep reading.

3.3.4.3 The Interview

Initially the interview was planned to work like an interview; that is, with me as the interviewer asking the informants questions that they would respond to. In order to save time (and face) I had the interviewees read the questions and then answering them out loud. In retrospect, that might have been a bad idea, in that it is less like an interaction, and thus may feel more formal.

3.3.4.4 Expected Results

The expected result would be that the first task, reading a list of words, would elicit the most formal pronunciation. If there were any distinction made between /e/ and /e/, this is where it would be expected to show up. In the second task, reading a paragraph, we might also expect it to show up, but that exercise would hopefully be perceived as less formal. The final exercise would hopefully elicit the least formal pronunciation, although that goal might have been better achieved if I as the interviewer asked the questions, rather than having the interviewees read them.

3.3.5 Pyongyang Data

The data from Pyongyang was collected from YouTube, and ultimately comes from

Korean Central Television. The occasion is formal throughout the material. This is somewhat fortunate, because it is difficult to know where the YouTube informants are from, and so even if they are not from Pyongyang, they will likely pay attention to their pronunciation in such situations, especially as news anchors, and we can compare their pronunciation to that of the known Pyongyangers. Some of the material analyzed is from a speech by Marshall Kim Jŏng Ŭn, the young leader of the DPRK himself. The ages of the informant are not precisely known, but the young leader is likely in his early thirties, the retired announcer likely in her seventies, and the two other announcers are aged somewhere in between. The links to the videos are in the bibliography.

3.3.5.1 Interviews

In the Democratic People's Republic of Korea, I had the opportunity to ask the guides many questions about Korean language, culture, and history. They seemed happy to answer, and were very informative. Although they were not linguists, they were educated and appeared to speak a standardized variety, with an accent that one of the guides also suggested would be best for a learner to adopt as well. The questions were necessarily spaced out because of limited time, and the fact that I was not the only person who wanted to talk to them. Many of them occurred spontaneously within conversations, but I noted down the answers and have collected my notes in appendix A. The interviewees were both men and women, although the precise ages of the guides are unknown. Most of the interviews were in English, but a few in Korean as well. The interviewees' names are not disclosed.

The interviews are not meant to be properly regarded as data, but they were a way to scan for information so I could propose hypotheses. Some of those hypotheses seemed worth pursuing in this thesis, including whether the phonemes /e/ and /ɛ/ have merged in Pyongyang or not.

3.3.5.2 Quality of the Material

Much of the material considered was rejected because the recordings were not good enough. Nevertheless, there was enough good material that I got 30 instances of every vowel for all but three informants. A few of the instances looked clear enough in Praat, but after extracting them and plotting them onto a chart, there are a few that appear in quite obviously wrong positions. These are not numerous, and do not become problematic for the analysis.

4. Data

Abstract

In this chapter, I will consider the data that will be analyzed. It is divided into two groups: Seoul and Pyongyang. The Seoul group also has a sub-group for the young informants, where samples were collected in three stages. The data is presented in the form of vowel charts.

4.1 Collected Data

The data is qualitative rather than quantitative, but is intended to reveal tendencies that could later be researched quantitatively. For example, aside from differences depending on where the informants are from, there might also be a difference that seems to depend on age, or maybe gender.

Instances of the vowels are conveniently presented in the form of vowel charts where the value of the x-axis is the F2 value and the y-axis is the F1 value. The chart has then been turned, so that it better matches the traditional orientation of the vowel quadrilateral, which has the roof of the mouth on top and the front of the mouth on the left (Ladefoged 2005: 42-43).

4.1.1 Sources

Aside from my own recordings in Seoul, I have used material from speeches and news found on YouTube (KBS News 2014a, 2014b; MissReporter China 2014; NORTH KOREA TODAY (DPRK NEWS CHANNEL) - rodrigorojo1 2010, 2014; Williams 2013). Everything has been analyzed in Praat, set to a sensitivity of 6 formants. This was occasionally lowered to 5 to make sure the estimate was reasonable, for example in cases where one formant registers as two in Praat at a sensitivity of 6.

4.1.2 Size of the Selection

Initially, there was going to be 12 informants tested by the same material, but this proved difficult to realize monetarily. Because of this, the number was reduced to 4 informants per city; two men and two women. Most of them are television announcers, for whom it is easy to find enough material; newscasts from Korean Central Television (KCTV) and Korean Broadcasting System (KBS) are abundant on the Internet, so even if a single video does not have enough material, there is always another video with the same announcer with a difference of only a few days. In practice, another video was only needed for the last few vowels of one informant.

I only included vowels of words I could understand myself. The target was 30 instances of each vowel per informant. 30 instances should be enough to see how the vowel spreads out, but not so much that diminishing returns become a big problem.

I initially planned on looking at both diphthongs and monophthongs to see if there were any consistent differences when the vowels appeared after a semivowel, but realized that it would have meant almost doubling the size of the data collection for a very minor and unlikely difference, and so I avoided diphthongs as much as possible. A few of the words in the collection contain diphthongs when written in Korean orthography, but are pronounced as monophthongs. These include words such as 繼續하다 (계속하다; kyesokhada) 'to continue', which is pronounced [khesokhada] even in prescribed pronunciation. Although I tried to avoid sequences where vowels occur either before or after another vowels or a glide as much as possible, because of my suspicion that those sequences might have "reduced" vowel articulations where the vowel is close to the glide or vowel following it, I made an exception to this in the Pyongyang data and included some cases of the dative particle 에 /e/, even though it is often pronounced /je/ in Pyongyang. There has not turned out to be any noticeable difference from the other instances of the vowel.

For the young Seoulites, the selection was divided in three, so ten vowels were from a word list, ten from a paragraph, and ten from an interview. It turned out that there was very little discrepancy between the three, aside from a "laxing" that is likely due to the speed at which the words were spoken. Unfortunately the limited material made it impossible to reach the sampling target for some of the vowels. These will be discussed below.

4.1.3 Quality of the Vowels

I have tried to use mainly vowels in roots, though that was not always possible.

Especially the vowels /e/ and /ɯ/ tend to occur much more often in endings than in roots, since 에 and 의, both pronounced /e/, a locative particle and a possessive particle, as well as 은 /шл/, a topic particle, occur very frequently.

Most of the time, if a vowel was somewhat unclear in the recording, it was skipped. I made some exceptions when hunting for some of the less frequent vowels, but never if the recording was so unclear that I could not tell whether it was reasonable or not.

Nevertheless, there are a few cases where an otherwise clear vowel has a strange value and ends up far from its "vowel blob" on the chart. The reason for this may be that there was background noise in the recording, that Praat interpreted it strangely, or simply that the speaker pronounced an instance of the vowel strangely. The strange vowels have little bearing on the average, and I have left them in there for transparency's sake.

4.2 Data from Seoul

The data from Seoul comes from two informants who are 22-23 years old, one male and one female (the 'young' informants), and from KBS News (KBS 뉴스 [kheibies(ய) njus(ய)]) announcers, one male and one female. The announcers are 40 and 30 years

old, respectively.

4.2.1 Young Informants

The data from the younger Seoulites is presented here. It is presented in the form of vowel charts (the files containing the formant values are available as appendices). Each chart contains the average sample values of all the vowels and all the points of the single vowel samples. Since all of the target vowels seem to be around the outer edges of the possible range, it was expected that rapid speech would produce more mid-centralized instances of the vowels.

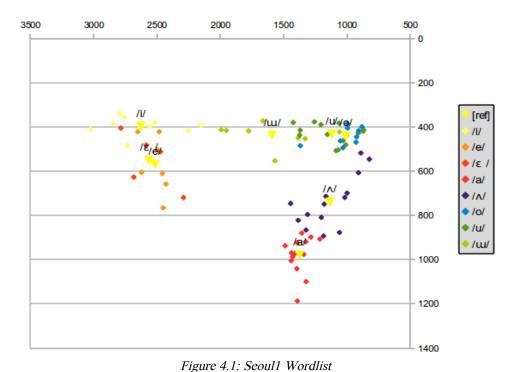
4.2.1.1 Seoul1

These are the vowel charts for Seoul1, the younger female Seoulite. They are presented starting with the wordlist, then the paragraph, and finally the interview. The vowels /e/, /e/, and /uu/ were difficult to sample enough of, especially in the interview, but they do appear where they are expected to.

Most of the vowels in fig. 4.1 are as expected. There is no difference between /e/ and /ɛ/, which seem to have merged into /e/. There is little overlap in these samples, but a few instances of /e/ and /ɛ/ do go very high, overlapping with some instances of /i/. We see that /u/ covers both the areas for [i] and [u]. The vowels /i/ and /a/ are exactly where we would expect, but / Λ / seems to vary in both rounding and closeness (ranging from the common [Λ ~2] to [o] on some occasions, which could mean we might find it as

[γ] as well), though everything but [$\Lambda \sim 0$] is probably marginal.

The most unexpected occurrence here is the almost consistent overlap of /u/ and /o/. That is not to say they have merged, though; they clearly sound distinct. The second formant, which determines the values for the x-axis, is primarily affected by both tongue position and lip rounding (Ladefoged 2005: 42-43). The reason for this overlap could well be a systematic difference in lip configuration rather than tongue position. This merits further discussion in section 5.1.



As can be seen from fig. 4.2, the pattern continues. The vowels /i/ and /a/ are still as predictable as ever, /e/ and /ɛ/ are still close enough to have a bit of overlap with /i/, /ɯ/

still ranges from back to central, and $/\Lambda$ / still varies a lot in both roundedness and closeness (this time even overlapping a bit with $/\Lambda$). As can be seen, the overlap of $/\Lambda$ 0/ and $/\Lambda$ 1/ is less complete here, and they both have more and less close instances, with some of them registering as open as $/\Lambda$ 2 and $/\Lambda$ 3, which is almost certainly due to disturbances in the sound file. Nevertheless, there is a clear pattern here.

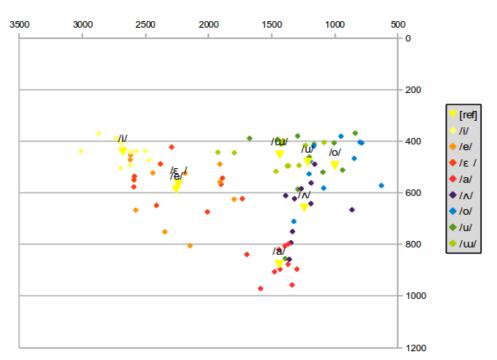


Figure 4.2: Seoul1 Paragraph

With the interview (fig. 4.3), we see the same pattern, even though the number of instances leaves something to be desired. The quality of this recording is also not as good, which leads to some instances of e.g. /e/ and /e/ varying too widely to be likely. We see some overlap between /a/ and /a/ as well, which might be due to the same problem. /uu/ ends up very centralized here, but there were only four analyzable

instances of it. Interestingly, /u/ and /o/ overlap *less* here than in the previous two charts.

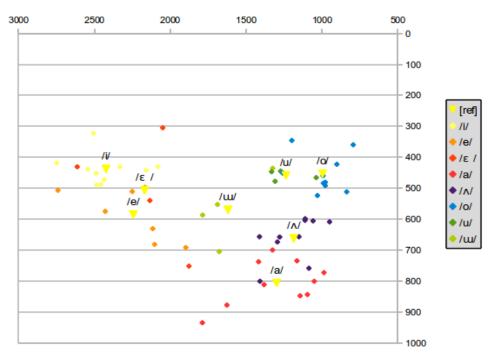


Figure 4.3: Seoul1 Interview

Figure 4.4 shows the vowel averages of the three stages, as well as the cumulative average. The general assumption of the wordlist vowels being least centralized seems to hold true, and there is a certain *tendency* for the interview vowels to be the most centralized as well, but surprisingly nothing too significant, with the exception of /e/ and / ϵ /, as well as /a/ and possibly / Λ /.

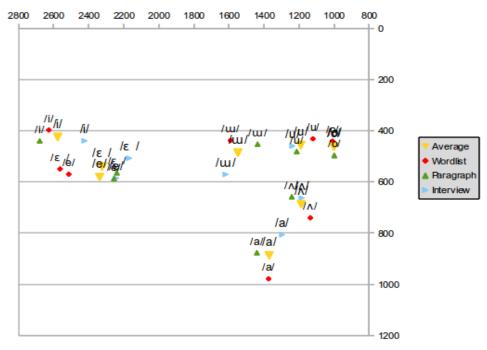


Figure 4.4: Seoul1 Averages

Figure 4.5 shows every instance of every vowel as well as the total average. There is much overlap between /i/ and /e/ and /ɛ/, as well as /a/ and / Λ /, /u/ and /o/. We still see a clear pattern that stays consistent in both formal and less formal tests.

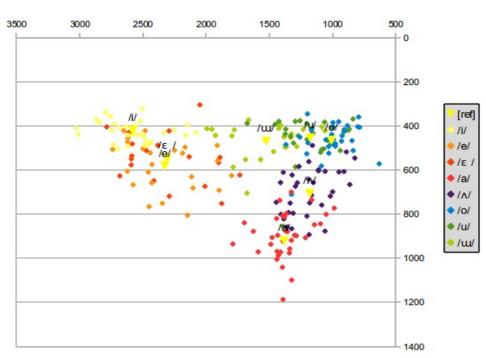


Figure 4.5: Seoul1 Complete

4.2.1.2 Seoul2

These are the vowel charts for Seoul2, the younger male Seoulite. They are presented starting with the wordlist, then the paragraph, and finally the interview. As with Seoul1, the vowels /e/, /e/, and /uu/ were difficult to sample enough of, but for the most part, they appear where we would expect them to.

As can be seen from figure 4.6, there is some overlap between /e/, /ɛ/, and /uu/ in their centralized instances, and between /uu/, /u/, and /o/. However, the overlap between /u/ and /o/ is much smaller than it was in the material for Seoul1. In addition, /o/ averages lower in closeness than /u/, though not much. As for the second formant, /u/ rarely gets as far back as /o/.

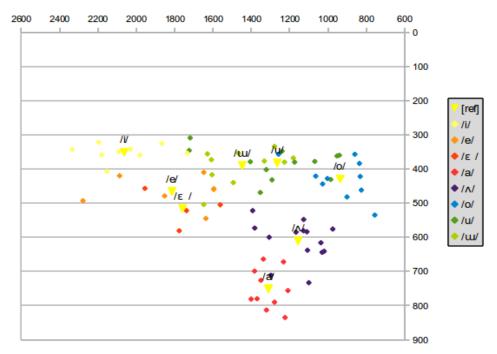


Figure 4.6: Seoul2 Wordlist

Figure 4.7 shows the vowels of the paragraph as read by Seoul2. The vowels /e/, /ɛ/, and /uu/ are very prone to centralization, and there are four instances of centralized / Λ / as well. They are not (historically) long vowels either – in fact, only one of them occurred in an initial syllable. We see a much greater overlap between /u/ and /o/ this time, and a greater spread overall. This could be due to less careful pronunciation, which is what the wordlist was intended to elicit.

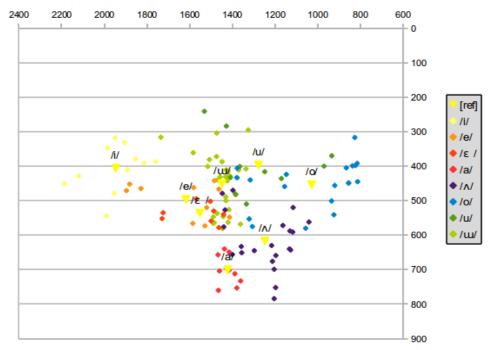


Figure 4.7: Seoul2 Paragraph

In figure 4.8, the vowels from the interview are shown. It is difficult to say much about it, beyond the overlap we see between /i/, /e/, /e/, and /uu/. Although /u/ and /o/ look entirely distinct on this chart, there were only two instances of /u/ that were possible to analyze, meaning that this chart is probably not very representable.

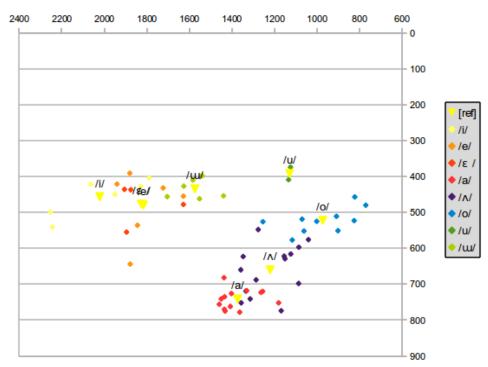


Figure 4.8: Seoul2 Interview

Figure 4.9 shows the average values of the three previous charts, as well as the average values between them. The lack of great variation here may indicate that the target pronunciation remains the same, even though rapid speech reduces the likelihood of reaching the target.

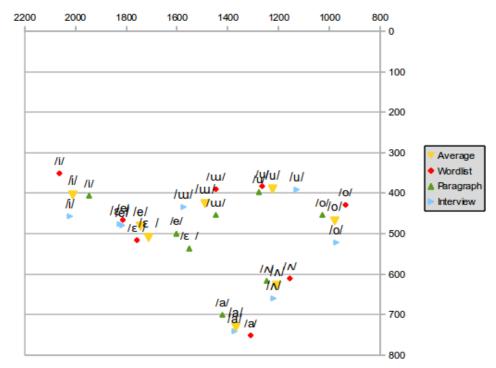


Figure 4.9: Seoul2 Averages

In figure 4.10 we see all the vowels sampled from Seoul2. Compared to Seoul1, there is very little overlap between /u/ and /o/, but they do seem to differ primarily in their F2 values. There also appears to be no doubt whatsoever that /e/ and / ϵ / have completely merged.

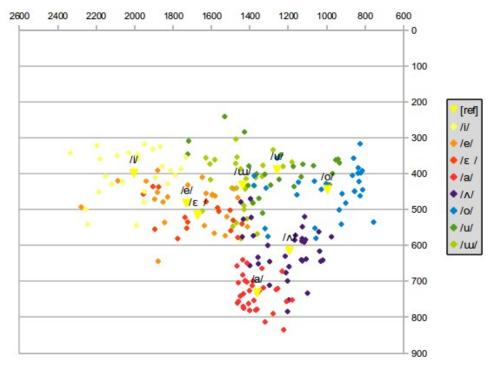


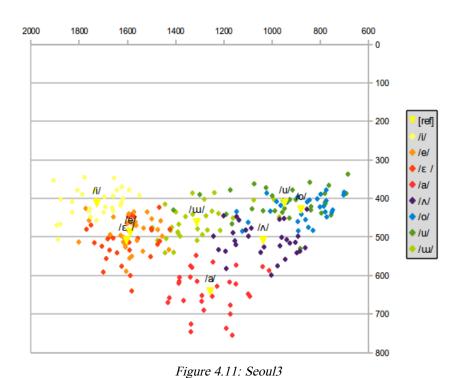
Figure 4.10: Seoul2 Complete

4.2.2 Announcers

The data from the announcers were collected from two videos on the YouTube channel of KBS news (KBS 뉴스). The vowels were pronounced by one male and one female announcer, respectively codenamed Seoul3 and Seoul4, and are mainly from the same video. Only a few of the last vowels had to be collected from a second video in order to get 30 instances of /ɛ/ and /tu/, and they were filmed only five days apart anyway. Since only the young informants went through a test, there is only one vowel chart for each of the other informants, including the KBS announcers.

4.2.2.1 Seoul3

Figure 4.11 shows the vowel chart for Seoul3. It is a very familiar pattern, quite like the one seen in Seoul1, in that /u/ and /o/ overlap a lot. Although the average values vary a bit, the "vowel blobs" show that the borders are similar, so we see some overlap between /i/ and /e/ and / ϵ /, for example.



4.2.2.2 Seoul4

Figure 4.12 shows the vowels of Seoul4. Again there is a familiar overlap of /u/ and /o/, although we see quite a few fronted /u/ instances pulling the average F2 value up and making it overlap a great deal with /u/. There is some overlap between /a/ and / α / as

well as /i/ and /e/ and / ϵ /. Also, / Λ / has some overlap with /o/.

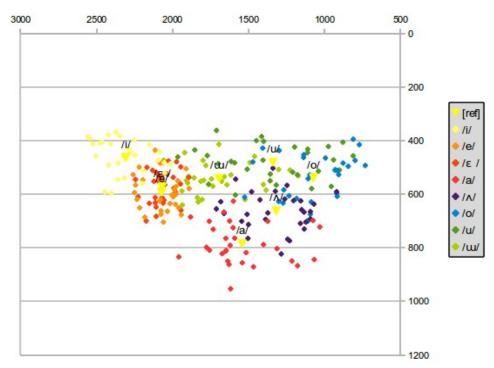


Figure 4.12: Seoul4

4.2.3 Observations

An interesting observation here is that neither of the announcers make a distinction between /e/ and /ɛ/. These two (historical) vowels overlap completely, even though they are prescriptively contrasted (Sohn 1994: 432). The fact that not even the announcers at KBS contrast them could mean that they have merged completely. This is not really a big surprise, but it is good to have evidence of it anyway.

Another observation is the great overlap between /u/ and /o/ in most of the informants.

There is a lot of /u/ fronting in Korean, particularly after sibilants, but even in its

"normal" back position, it shows up with an F2 value that is usually higher (meaning "more front" or "less rounded") than that of /o/.

4.3 Data from Pyongyang

The data from Pyongyang is exclusively from YouTube. The first informant is the current supreme leader of the DPRK, Marshall Kim Jŏng Ŭn (金正恩; 김정은), codenamed Pyongyang1. The three other informants, codenamed Pyongyang2-4, are announcers for KCTV, among whom 李春姬 (리춘희; Ri Chun Hŭi) is the most famous for the dramatic gusto in her voice. These are also presented in one vowel chart each. Ideally, I would have included only two announcers here as well, but there is a scarcity of materials with females from Pyongyang other than in song and announcing, so I decided that an extra announcer would be better than having to deal with the possible disturbance that music would add.

4.3.1 Pyongyang1

Being one of the youngest current world leaders, Marshall Kim Jŏng Ŭn could be expected to show a somewhat different vowel system from the announcers, although he was recorded in a formal setting, specifically his New Year speech. In figure 4.13, we see immediately that /e/ and /ɛ/ overlap completely, and that they have a certain overlap with /i/. There is a relatively modest overlap between /u/ and /o/; nothing like the almost complete overlap we saw in some of the Seoul informants. On the other hand, there is a

greater overlap between /o/ and / Λ /. They are clearly distinct, but rather than differing primarily in F1 values (i.e. closeness), what separates them is the F2 value, meaning it is a difference in rounding, backness, or both. However, given that / Λ / and / α / both have the same degree of backness (with a few instances of / Λ / going further back), it is likely that the tongue position is the same, and that /o/ is the rounded counterpart of / Λ /. In fact, / Υ / is probably a better symbol than / Λ / in this case, and / Ω / would then be more accurate than / Ω /, but I will keep / Ω / and / Ω / for consistency.

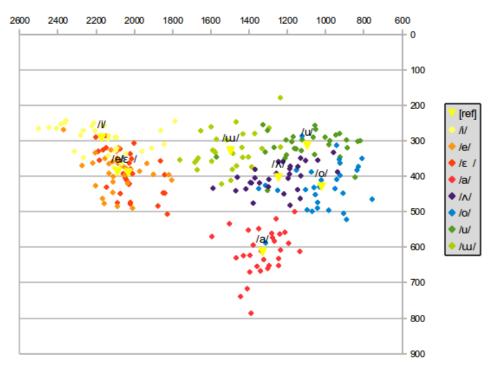


Figure 4.13: Pyongyang1

4.3.2 Pyongyang2

Pyongyang2 is the oldest of these announcers, and the recording was not always easy to analyze, with "extra formants" being very common, particularly in /e/ and /ɛ/ instances,

which might have led to a slightly lowered recorded F2 value in these. She is retired now, and may be expected to represent the speech of the older generation. Her dramatic tone sometimes gives plosives so much aspiration that the following vowels are impossible to analyze, such as $\frac{1}{2}$ [$\frac{1}{2}$ [$\frac{1}{2}$ him] being pronounced [$\frac{1}{2}$ him] instead. Interestingly, as shown in figure 4.14, her $\frac{1}{2}$ and $\frac{1}{2}$ also display a complete overlap, and they have some minor overlap with $\frac{1}{2}$. Her vowels tend to be very reduced, so $\frac{1}{2}$ is realized as [$\frac{1}{2}$] and [$\frac{1}{2}$] most of the time; it is even realized as [$\frac{1}{2}$], but not even one instance of it is a clear [$\frac{1}{2}$]. It also overlaps considerably with $\frac{1}{2}$ and $\frac{1}{2}$, though this could be a result of the difficulty in extracting these vowels' F2 value. There is considerable overlap between $\frac{1}{2}$ and $\frac{1}{2}$ as well as $\frac{1}{2}$ and $\frac{1}{2}$ with some overlap between $\frac{1}{2}$ and $\frac{1}{2}$ as well. Some instances of $\frac{1}{2}$ also overlap with $\frac{1}{2}$. The darkest instances of $\frac{1}{2}$ and $\frac{1}{2}$ also display a lowered sonority.

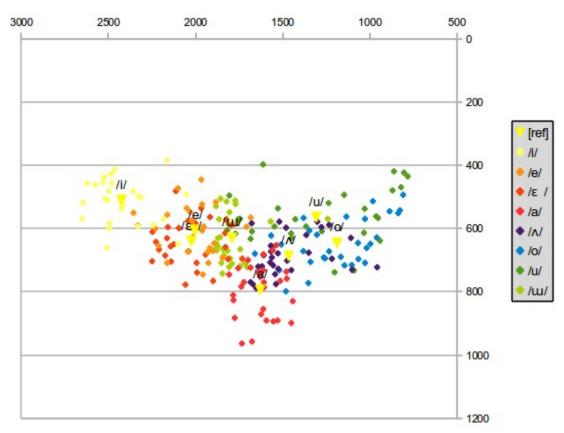


Figure 4.14: Pyongyang2

4.3.3 Pyongyang3

This second announcer for KCTV is male. His voice, while slightly dramatic, is much more natural than that of Pyongyang2. Even so, we see in figure 4.15 the same distribution of / ω / – reduced and concentrated around the mid-central point. There is considerable overlap between /e/ and / ε /, especially considering that these vowels, together with /a/, vary the least with this informant. They also have some overlap with /i/. Pyongyang3 at first glance actually does seem to distinguish /e/ and / ε /, though not consistently. Whether it is because he is trained to do it or not is unknown, but it may be likely.

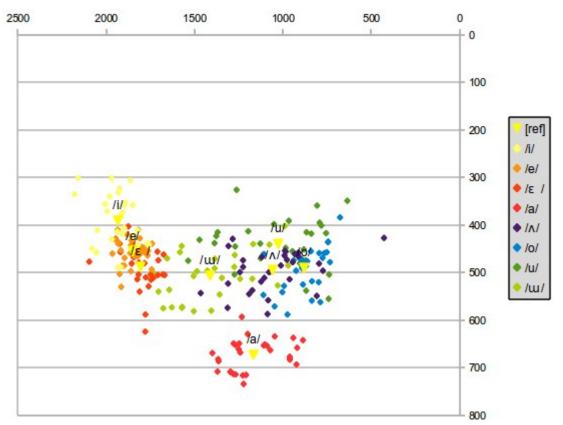


Figure 4.15: Pyongyang3

4.3.4 Pyongyang4

Figure 4.16 shows the vowel chart for Pyongyang4. For this informant, I could not get the full 30 instances of /e/, /ɛ/, and /ɯ/, but all of them have more than half, and we do see a familiar system. There seems to be a complete overlap of /e/ and /ɛ/, although a cluster of /ɛ/ instances near the bottom of the /e/ "vowel blob" could indicate that she tries to distinguish them. There is also the familiar slight overlap between /i/ and /e/ and /ɛ/. The open vowel /a/ is surprisingly distinct in this chart. No other vowel is nearly as open. Most instances of it also seem more central than in the other informants,

especially relative to /w/ and / Λ /. That could also mean that /w/ and / Λ / are prone to rounding, and as can be seen, /o/ and / Λ / do overlap quite a bit. In fact, from this material, it may look like /o/, / Λ /, and /w/ form a "rounding continuum" similar to the one we may have observed with /o/, /u/, and /w/ in Seoul. The more open a vowel is, the less likely it is to contrast by rounding (Theil 1991: 91), and while these vowels are more open than /i/ and /u/, they seem to cover roughly the area of [Υ ~o], which is still relatively close.

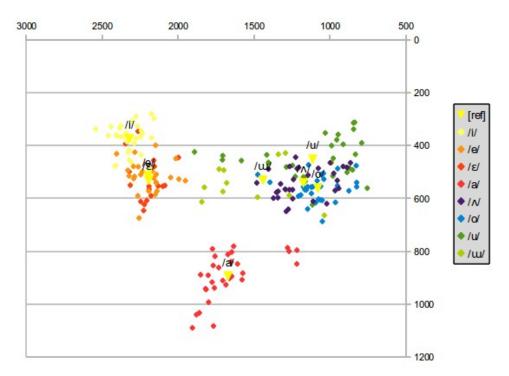


Figure 4.16: Pyongyang4

5. Analysis

Abstract

In this chapter I will analyze the data according to traditional phoneme theory. First, the hypotheses are considered in view of the data. Next, the overall system of each informant is considered, and generalizations are made for each city.

5.1 Hypotheses

Having presented the data, we can look at how it matches the working hypotheses . I will go through the hypotheses one at a time, adjusting the traditional vowel system as described by Sohn (2001: 54) and others, shown in table 5.1, along the way. It is a quadrangular system with three degrees of sonority, where the two least sonorous degrees also distinguish four degrees of timbre.

Fre	ont	Ва	nck
Unrounded	Rounded	Unrounded	Rounded
i	y	ш	u
e	Ø	Λ	O
ε		a	

Table 5.1: Traditional Korean Vowel System

5.1.1 Merger of /e/ and / ϵ /

I hypothesized that this distinction was lost in Seoul, but preserved in Pyongyang. However, none of the informants from either Seoul or Pyongyang, with two possible exceptions, seemed to distinguish these sounds, even the news anchors. This merger has consequences for the structure of the system. We must remove /ɛ/ from the equation, meaning that the system is no longer quadrangular, but triangular, as shown in table 5.2.

Fre	ont	Ва	ock
Unrounded	Rounded	Unrounded	Rounded
i	y	ш	u
e	Ø	Λ	o
a			

Table 5.2: Merger of /e/ and /ε/

The possible exceptions are Pyongyang3, and to a lesser degree Pyongyang4, who did have many instances of $/\epsilon$ / with high F1 values, suggesting more aperture in the articulation, as shown in figure 5.1. Not counting the instance of $/\epsilon$ / with the highest F1 value, 530 Hz, almost half of the of the $/\epsilon$ / instances, specifically 13, have higher F1 values than any instances of $/\epsilon$ /. The rest overlap as with the other informants. Although the difference in sonority between $/\epsilon$ / and /a/ is striking, they could still be counted as members of the same sonority level (assuming the inclusion of $/\epsilon$ / in the system), by merit of being the most sonorous of three vowels in the same class of timbre, though as

we will see, that is problematic.

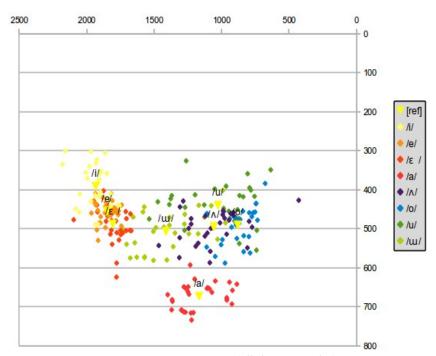


Figure 5.1: Pyongyang3 (all thirty samples)

This is seen even better if we reduce the samples, since many of them overlap. Figure 5.2 shows Pyongyang3 with only the twenty first samples. Although there are some instances with very low and one instance with very high sonority, the majority of $/\epsilon$ / instances are quite sonorous compared to $/\epsilon$ /, though they are still nowhere close to as sonorous as /a/. In fact, $/\epsilon$ / seems to be located in the same range as /o/, /a/, and /uu/, with /e/ sitting closer to /i/.

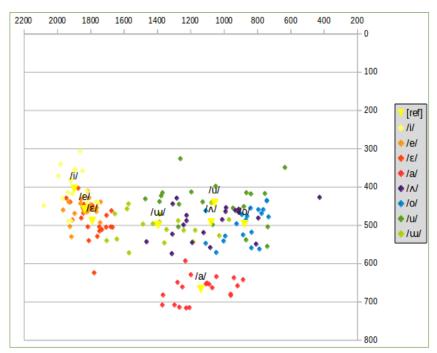


Figure 5.2: Pyongyang3 (20 first samples)

5.1.2 Realizations of /wi/ and /we/

I speculated that the front vowels [y] and [ø] would occur as allophones of /wi/ and /we/ after sibilants/palatals (/s/, /s²/, /t͡c/, /t͡c/, /t͡c/) in both Seoul and Pyongyang. Although there were cases of [y] in the predicted context, and indeed palatalization of /s/ and /s²/, there were no cases of [ø]. The cases where [y] was found were so few that I decided against sampling them. More commonly, the realization was simply a fronted [wi], i.e. [qi]. This is strange in light of Ahn's (2009: 45) comment that the realization [we] is less common than that of [wi], by extension making [ø] more common than [y] as realizations of their respective phonemes. I view this as further evidence against /y/ and /ø/ in favour of /wi/ and /we/.

These observations hold true for all eight informants. Because /w/ occurs with several vowels, it does not seem necessary to consider /wi/ and /we/ any differently, especially when their realization is almost always [wi] and [we]. In table 5.3, I therefore remove /y/ and /ø/ from the equation, and we are left with a triangular system with three degrees of sonority, but where only three degrees of timbre are distinguished.

Front	Back	
Unrounded	Unrounded Rounded	
i	uı	u
e	Λ	0
a		

Table 5.3: Removal of /y/ and /ø/

5.1.3 Distinction Between /u/ and /o/ in Seoul

I postulated the hypothesis that although the back vowels /u/ and /o/ are typically described as differing in F1 value (sonority), they are actually distinguished from each other by the F2 value (timbre). Although the Pyongyang informants stay true to the traditional description of /u/ vs. /o/, so that we do not need to amend table 5.3 for them, the Seoul informants do not, and the vowels differ in F2 value instead. The F1 value of /u/ and /o/ remains remarkably consistent for the Seoul informants, and although there are cases of more sonority as well, they are few and far between. A possible exception is Seoul2, as shown in figure 5.3. Seoul2's /o/ does appear to be relatively more back, as we have come to expect at this point. However, there also seems to be a

tendency towards more sonority, though counterexamples are unquestionably also numerous in this informant.

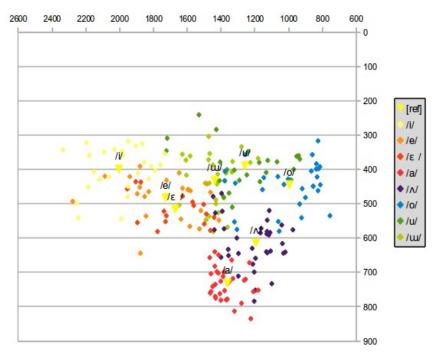


Figure 5.3: Seoul2

The fact that /u/ and /o/ have different F2 values is not new anymore. Although /o/ is relatively stable, /u/ is very prone to fronting, seemingly in all environments (though not necessarily equally often). Many of the backmost instances of /u/ do overlap considerably with /o/ for some of the informants. Sohn (2001: 69-70) mentions "raising" of /o/ to /u/ in certain positions, such as emphatic final position. However, as the data shows, it is the less sonorous /o/ that is more common, with more sonorous ones occurring much less often. When both /u/ and /o/ have the same degree of sonority, it is impossible for /o/ to be "raised" in order to merge with /u/. In addition, /o/ has a

different degree of timbre. It would be more reasonable to assume that /o/ merged with /u/ in timbre where they are neutralized. However, /u/ varies over a much larger area than /o/, so the overlap we can observe here is likely not related to the neutralization Sohn discusses.

Amending the table to account for the sonority of /o/ in Seoul, we get a triangular system with three degrees of sonority, and four degrees of timbre, but then only in the least sonorous vowels, shown in table 5.4. At the moment, I am only using the traditional symbols for the phonemes, but since /o/ covers the area for [u], it would be more accurate to transcribe it [u] or [u]. The first if we consider the lip configuration to be the important distinction, and the second if we consider tongue position to be important. We could even transcribe it with both, by placing the rounding diacritic above: [u]. Conversely, /u/ in its dark realizations also covers the [u] area, so we could transcribe it as [u], [u], or even [u] to distinguish them from each other.

Front	Back		
Unrounded	Unrounded Rounded		nded
i	ш	u	o
e		Λ	
a			

Table 5.4: Raising of /o/ (Seoul)

This is similar to the system common across Scandinavia, where four degrees of timbre

are distinguished in the least sonorous vowels, but three of the degrees are distinguished by lip configuration. Perhaps this is also the case in the Seoul system, but for back vowels, so that /uu/ is unrounded, /u/ is rounded, but /o/ is more rounded than /u/. It is also possible that the tongue position is different, and rounding is the same for both. If the latter is true, the overlap we see could mean there is an ongoing neutralization, and then perhaps only in certain positions.

5.1.4 Merger of $\langle o \rangle$ and $\langle \Lambda \rangle$

One of the most interesting hypotheses postulated in chapter 2.6 was that of a possible merger between /o/ and /a/ in Pyongyang. It was based on my Korean friend's impression of Pyongyang /o/ as sounding like /a/, and /a/ as sounding like /o/. My Pyongyang interviews indicated that they had not merged, but as we saw in the case of /e/ and /e/, the interviews are not necessarily reliable, and should only be used as a basis for asking questions that we can then find answers to.

If these sounds had merged, it would mean one out of three things. Either, they differed only in F2 value (timbre), with the F1 being irrelevant. Alternatively, they differed only in F1 value, with the F2 being irrelevant. Or, less credibly, they differed in both of these values and merged in spite of that.

The first scenario would make the most sense, considering the traditional description of both /o/ and /a/ as mid vowels differing in timbre. The second scenario, however, could

also make sense if, instead of the traditional description, postulated a triangular system with four levels of sonority and three degrees of timbre distinguished only on the closest level, as shown in table 5.5. If we had a merger of /ɛ/ with /e/ and /ʌ/ with /o/, then it would simply be a case of a system no longer distinguishing four levels of sonority, reducing them to three.

Front	Back	
Unrounded	Unrounded Rounded	
i	ш	u
e	0	
ε	Λ	
a		

Table 5.5: Hypothetical Pyongyang Vowel System

Nevertheless, neither interpretation is actually valid, because not a single informant shows a merger between /o/ and / Λ /. It *is* interesting to note that /o/ and / Λ / occur with approximately the same F1 value, as opposed to being counted as mid vowels despite occurring with a larger difference between themselves than between /u/ and /o/ as Y.-b. Kim (1977: 38) would suggest. This could also explain why my south Korean friend felt that they were so similar; in the Seoul informants, the distance between /o/ and / Λ / is very large, especially in F1 value, whereas in the Pyongyang informants, they are very close together, and with more or less the same F1 value.

5.2 Analysis of Vowel Systems

5.2.1 Overall Vowel Systems

Overall vowel systems can reasonably be said to exist for each speaker. There may be reason to generalize to some degree, but we should first look at the system for each informant and determine how all the vowels contrast with each other. We assume that the two relevant properties are sonority and timbre; properties of resonance are irrelevant, meaning that the two-dimensional representation is adequate. It is important not to consider the averages, which are included only as a reference, but rather the whole vowel range, with emphasis on areas with many instances. "Light" or "bright" and "dark" in this discussion are to be understood as in the sense of timbre; i.e. "back" or "rounded" rather than a reference to vowel harmony classes. The traditional system, as described by e.g. Sohn (2001: 54), is presented again for reference in table 5.6.

Fre	ont	Ba	nck
Unrounded	Rounded	Unrounded	Rounded
i	у	ш	u
e	Ø	Λ	O
ε		a	

Table 5.6: Traditional Korean Vowel System

5.2.1.1 Seoul1

Figure 5.4 shows the vowel instances of Seoull's vowels. It is clear that we must eliminate $\frac{\epsilon}{\theta}$ by counting it as an extension of $\frac{\epsilon}{\theta}$, since they do not contrast at all, but

all the other vowels need to be considered.

We see that /i/ stands out as the brightest vowel in timbre and the least sonorous of the system. Its structural "neighbours" must be said to be /e/ and /u/. While /e/ necessarily tends to be less bright, it must still be considered part of the same class of timbre as /i/, since they both represent the brightest areas of their respective degrees of sonority. Although it is likely safe to consider /i/ and /u/ as belonging to the same level of sonority, with /u/ being in a distinctive opposition based on its degree of timbre, it is clear that /u/ spans quite a large area. Most of its realizations are quite dark, but the brighter ones are numerous enough that they cannot be dismissed as errors.

/a/ is easily the most sonorous vowel of the system, with no neighbours in timbre. It overlaps quite a bit in the less sonorous instances with the most sonorous instances of $/\Delta$, its neighbour in sonority, however.

The relationship between /e/ and / α / is slightly tricky because of / α /'s tendency towards more sonorous realizations and /e/'s tendency towards less sonorous realizations, but in the end, considering them as being on the same level of sonority is not problematic.

/u/ and /o/ overlap a whole lot, similarly to what we saw for /e/ and / ϵ / in Pyongyang3, but in timbre this time. There is a clear tendency towards darker realizations for /o/ and lighter realizations for /u/. In section 5.2.1.5, the transcriptions of these vowels will be

reconsidered.

On these grounds, I think it is reasonable to analyze Seoul1's vowel system as a triangular, three-level, with a four-degree distinction in timbre at the least sonorous level, a two-degree distinction at the medial level, and naturally no distinctions at the most sonorous level.

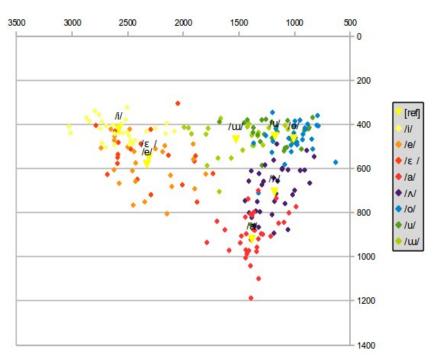


Figure 5.4: Seoul1

5.2.1.2 Seoul2

Figure 5.5 shows the vowels of Seoul2. Once again, we must consider the instances of /e/ to belong to /e/. This chart is less tidy than that of Seoul1, but the pattern is mostly the same. The exception, however, is /o/. In Seoul1, all instances of /o/ have very little sonority, with /Δ/ essentially covering the entire area between /u/ and /a/. In Seoul2, although /o/ does have most of its concentration in the least sonorous and darkest areas, its entire distribution spans a much larger area, cutting /Δ/ off from /u/ altogether by "lining the lower boundary" of /u/ with a small set of instances. While this could tempt us to conclude that /o/ differs from /u/ in sonority, it is important to note that instances of many vowels, including /u/ and /uu/, approach a mid central position, which might be explained by the quality of the recording or a tendency on the part of the informant to reduce vowels in less prominent positions.

Another difference is the sonority of /e/ and / Λ /, which hardly overlap this time around. Nevertheless, it seems reasonable to consider them on the same (however wide) level of sonority. Maybe it would be reasonable to assume that the most sonorous and least sonorous levels have higher thresholds for being "considered a member", in that they represent the two extremes of the sonority range, with the medial level being more generous with "admission".

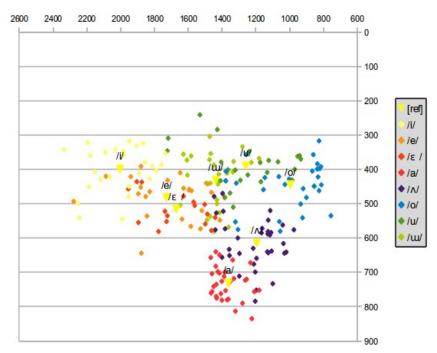


Figure 5.5: Seoul2

5.2.1.3 Seoul3

Figure 5.6 shows the vowels of Seoul3. Although $/\epsilon$ / has merged with $/\epsilon$ / again, we see that most of the spectrum is actually covered quite nicely. The exception to this is the (at this point not-so-curious) overlap between /u/ and /o/, where the majority of /u/ instances are brighter and the majority of /o/ instances are darker. Although /o/ appears to have a slightly more lenient relationship to its sonority, it is clear that it is a member of the least sonorous level, as its darkest member. In this informant, /e/ and /a/ are actually on almost exactly the same levels, beautifully paralleling each other. The strange thing about this map is the distribution of /u/. It is very central, and stretches between the least sonorous level and the medial one. Even so, it is probably reasonable to consider it a close vowel.

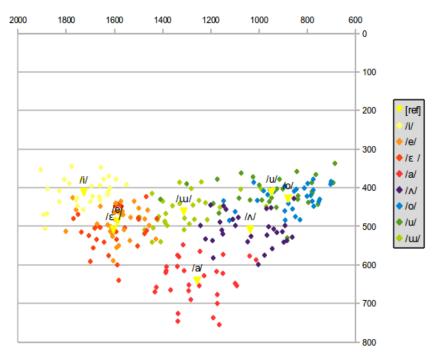


Figure 5.6: Seoul3

5.2.1.4 Seoul4

Figure 5.7 shows the vowels for Seoul4. The distribution is very similar to that of Seoul3, and ϵ has notably merged with ϵ and must of course be considered part of it in this analysis. There is less overlap between ϵ and ϵ how for Seoul4, and instead there is some overlap in the boundaries between ϵ and ϵ how here it concentrated in the least sonorous and darkest regions of the chart, with instances of ϵ ranging from very dark to moderately dark – even only slightly dark in a few instances of fronting, where it overlaps with ϵ and covering a slightly less sonorous range. ϵ concentrated in the space between all the other vowels, at about the same sonority as ϵ . Interestingly, ϵ is concentrated in the darker areas, but its range covers

some quite light ones too. This may be because there is no rounding contrast on this level of sonority, since /o/ belongs to the least sonorous level, though /o/ admittedly has a significant number of more open occurrences as well. /ʌ/ also has a few very sonorous realizations, intersecting with /a/, but they are not very numerous.

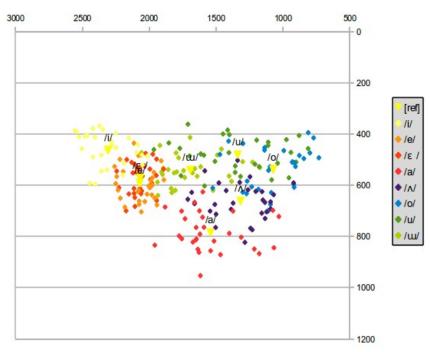


Figure 5.7: Seoul4

5.2.1.5 Seoul Generalizations

- Since all four of the Seoul informants have merged $/\epsilon/$ with /e/, we must exclude $/\epsilon/$ from the Seoul vowel system altogether.
- Although /e/ and / Λ / tend to cover somewhat different sonority ranges, they are the only two medial vowels, and must be considered to belong to the same structural level of sonority.

- /w/ tends to cover the approximate area that we might label [i~w], but also the same sonority as /e/, i.e. [9], on occasions numerous enough that they must be considered. The matter is clear-cut in Seoul1, and in Seoul2 and Seoul4, the darkest instances of /w/ are less sonorous than /ʌ/, indicating that /w/ belongs to the less sonorous level. For Seoul3, on the other hand, we may have to consider that /w/ could belong to either of the two sonority levels, with its timbre being the distinguishing feature. With that noted, we can assign it to the least sonorous level to match the other informants.
- The Seoul informants realize both /u/ and /o/ as close vowels. The darkest in timbre, /o/ which we might transcribe [u], [u], or [u], should thus be given another symbol for future transcriptions, because even phonological transcriptions ought to use transparent symbols whenever this is possible. Since /u/ is already in use for its brighter neighbour, which we might transcribe [u], [u], or [u], it might be best to change the symbols for both of these. In fact, we could go so far as to adopt the traditional central vowel symbol for /uu/, writing the equally appropriate /i/ instead, and simply use its rounded counterpart /u/ instead of /u/, and then use the freed-up /u/ symbol instead of /o/. Alternatively, /u/ for /u/ and /u/ for /o/ are also adequate, if we consider tongue position to be less important than lip configuration.

All of this makes the vowel system of Seoul, if we generalize from this data, the triangular one with three levels of sonority and three degrees of timbre shown in table 5.7. In parentheses, my suggestions for new symbols for the phonemes are shown where they differ from the ones we've used so far.

Front	Back		
Unrounded	Unrounded	Rou	nded
i	w (i)	u (u)	o (u)
e		Λ	
a			

Table 5.7: Vowel System (Seoul)

5.2.1.6 Pyongyang1

Figure 5.8 shows the vowels of Pyongyang1, the youngest of the Pyongyang informants, whose $/\epsilon$ / has also merged with $/\epsilon$ /. We see a very low sonority in the realizations of /w/, just like the young Seoulites; especially Seoul1. The whole system, other than the merged $/\epsilon$ / and $/\epsilon$ / (and the disregarded /y/ and $/\theta$ /), fits the traditional description of the Korean vowel system. There is something to say about the degree of timbre, however. Although we count both /u/ and /o/ as back rounded vowels and /w/ and /n/ as their unrounded counterparts, the timbre of /u/ and /o/ is about the same, whereas the same cannot be said of /w/ and /n/. The former can safely be said to cover the areas of both [i] and [w], even approaching [9] in a few instances, but /n/ hovers around [x]. It may be a difference in rounding or tongue position, but they are still the medial timbre members of their respective sonority levels.

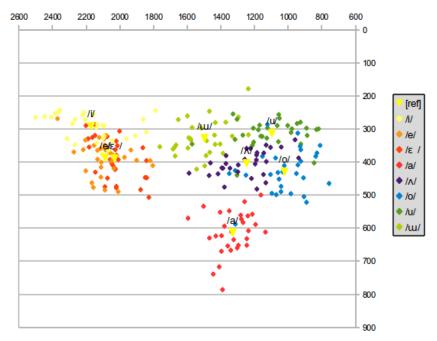


Figure 5.8: Pyongyang1

5.2.1.7 Pyongyang2

Figure 5.9 shows the vowels of Pyongyang2, and again the /ε/ has merged with /e/. The biggest difference from Pyongyang1 is /w/. Only a few instances are as high as [i] would be expected to be, and none as far back as [w]. Instead, the timbre is consistently central, and the sonority varies from close/near-close to mid/open-mid, overlapping more than in any other informant with /e/ (and the merged /ε/), rather than /u/. This realization of [i~3] suggests that it belongs to the medial level of sonority, and is not actually on the same level as /u/. We must also consider that many /u/ instances appear very sonorously as well, though not quite like /w/.

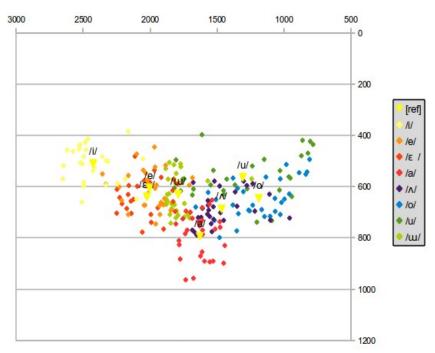
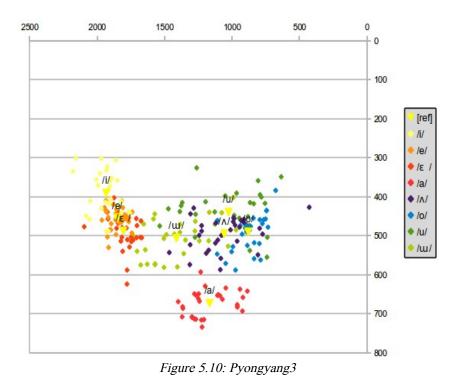


Figure 5.9: Pyongyang2

5.2.1.8 Pyongyang3

Figure 5.10 shows Pyongyang3's vowel realizations. The /e/ instances do not overlap completely with the /ɛ/ ones, so /e/ lies between the less sonorous vowels and the mid ones. The /w/ instances, as with those of Pyongyang2, are also in the approximate range $[i\sim3]$ or $[9\sim3]$, though the majority is very mid, occupying the same sonority space as /e/ and /ɛ/, /ʌ/, and /o/. There is much more variation in timbre, with some instances going very far back and others going very far to the front, and here as well there is a bit of overlap with /ɛ/. In short, this vowel is much more sonorous than expected, and must be considered to differ from the other mid vowels by degree of timbre. The question of /e/ remains, though. It is clear that /ɛ/ and /w/ contrast in timbre , and /w/ even covers a greater and more sonorous range than /ɛ/. We must therefore consider /ɛ/ part

of the mid degree of timbre; we cannot pretend that it contrasts in timbre with /a/. Although it is typologically strange, there seems to be no other way of looking at it than to admit that /i/ and /e/ contrast in sonority, /e/ and /ɛ/ also contrast in sonority, and as we have seen, /ɛ/ is the brightest of the mid vowels. /e/ must thus be considered between /i/ and /ɛ/ on its own, or we must consider /i/ to be the most sonorous vowel on its own. The latter interpretation may actually be the most accurate, because most instances of /u/ are actually on the level of /e/, but the best approach may be to simply count it as contrasting with both /i/ and /e/ in timbre, since there is no evidence of an extra sonority level in the back vowels.



5.2.1.9 Pyongyang4

Figure 5.11 shows Pyongyang4's vowels. As with Pyongyang3, most of the realizations

of $/\epsilon$ / were more open than most of those of $/\epsilon$ /, suggesting that a distinction is made in the same way as in Pyongyang3. There were fewer instances of each vowel recorded for Pyongyang3, but the samples do match those of Pyongyang3 more closely than they match Pyongyang1 and Pyongyang2. Many instances of /u/ are also relatively sonorous, so if we consider $/\epsilon$ / to be on its own level of sonority, between /i/ and $/\epsilon$ /, we could consider /u/ as contrasting with both /i/ and $/\epsilon$ / in timbre. As for /u/, although there were fewer samples of it, the variation lies in timbre, rather than sonority, as would be expected, but its sonority is rarely as low as that of /u/, so it falls in the mid range, between $/\epsilon$ / and $/\epsilon$ /, $/\epsilon$ 0/ and $/\epsilon$ /. Interestingly, there is a lot of overlap between $/\epsilon$ 0/ and $/\epsilon$ 0/, with the majority of $/\epsilon$ 0/ instances in the darker area and the majority of $/\epsilon$ 0/ instances in the lighter area.

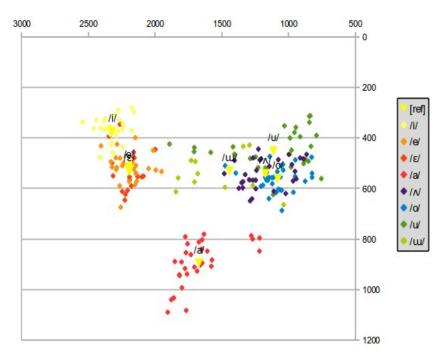


Figure 5.11: Pyongyang4

5.2.1.10 Pyongyang Generalizations

- Since both the youngest and oldest of the Pyongyang informants, the latter of whom was an experienced announcer at the time of recording, have merged /e/ and /ɛ/, there is reason to believe that these vowels have merged in Pyongyang as well. The other two announcers do tend to distinguish them, or at least produce /e/ with less sonority than the average /ɛ/, but it could be done on purpose for the job. This is assumed in table 5.7, but discussed further below.
- The two non-retired announcers' pronunciation of /o/ and /a/ overlap more often than those of Pyongyang1-2. Nevertheless, the distinction lies in timbre.
- With the exception of Pyongyang1, all three informants have relatively sonorous /w/ instances, which could mean that it would be a good idea to consider it part of the medial level of sonority for the older speakers.

The Pyongyang vowel system for the older speakers could thus be interpreted as a triangular system with three levels of sonority, where three degrees of timbre are distinguished at the *second* level, rather than the first. This is illustrated in table 5.8. The system of the younger Pyongyang1 is shown in table 5.9. Both tables have my suggested alternatives for future transcriptions in parentheses. Because the mid level varies a great deal in sonority, the most important has been to select symbols from approximately the same level of sonority in the IPA without employing diacritics, so they might be more accurately transcribed $\langle \Delta \rangle$ or $\langle \gamma \rangle$, $\langle \phi \rangle$ or $\langle \sigma \rangle$, but using the pair $\langle \phi \rangle$ - $\langle \Delta \rangle$

implies a certain difference in sonority that is not found. The mid central vowel could be transcribed either /ə/ or /ə/ or even /ə/ with diacritics, in which case /e/ should also be used. For the latter, / ϵ / or / ϵ / should be used if open symbols are selected. It is probably best to select either only the close-mid or only the open-mid IPA symbols without diacritics for simplicity. Using the close-mid symbols /e, ə, γ , o/ gives the least number of special symbols.

Front	Back		
Unrounded	Unrounded Rounded		Rounded
i	u		
e (ε)	(c) o (x) (x) (y)		0 (0)
a			

Table 5.8: Vowel System (Pyongyang, older)

Front	Back	
Unrounded	Unrounded Rounded	
i	w	u
e (ε)	Λ (Υ)	0 (5)
a		

Table 5.9: Vowel System (Pyongyang, younger)

Whether we consider it to be done on purpose or not, the system found in Pyongyang3-4 should be laid out as well, and it is shown in table 5.10, again with suggested alternatives in parentheses. In this case, it may be advisable to select the open-mid symbols, since /e/ is taken, although it is possible to use /ɪ/ or /i/ for /e/ to free

up that symbol; otherwise, the recommendations are the same as before. It is doubtful that it can be generalized to the average Pyongyanger, but it may well be a common one for KCTV announcers.

Front	Back		
Unrounded	Unrounded Rounded		Rounded
i			
e	u		
ε	(c) o (x) (x) (c) (c) (d)		
a			

Table 5.10: Vowel System (Pyongyang, older)

5.2.1.11 Final Comparison

If we assume that the traditional system was in general use among Korean adults in both Seoul and Pyongyang at the time of the Korean War, both cities have seen a vowel shift since then. Not one of the informants conformed to the traditional description in every regard. Interestingly, both systems have developed a three-way distinction in back vowels, but whereas the Seoulites have their three-way distinction in the close vowels, the older Pyongyangers have it in their mid vowels. The youngest Pyongyanger not displaying this three-way distinction is maybe an indication that it is disappearing in favour of a more symmetrical system. The vowel system of Pyongyang1 is indeed the most symmetric one of the eight we have looked at.

6. Summary and Conclusion

Abstract

In this chapter I summarize the previous chapters and make conclusions based on the data analysis. I also make some suggestions regarding future research.

6.1 Historical Development

6.1.1 Development of the Contemporary Vowel System

From the advent of the Korean alphabet in the 15th century, material for researching Korean phonology has grown increasingly abundant. It made it possible to see its development over time, for example by noticing around what time variant spellings occur.

The contemporary vowel system of the dialects in the Central and Pyongan zones, and by extension Standard Language and Cultured Language, are traditionally described as roughly the same: a quadrangular system with three levels of sonority and three to four degrees of timbre distinguished in the two lowest levels of sonority. However, since the division of Korea after World War II, the current capital cities of Seoul and Pyongyang have effectively been isolated from each other, which leads to my suspicion that their

vowel systems have diverged over the last 60 years.

6.1.2 Hypotheses

On the basis of my experiences leading up to this thesis, as well as phenomena described by the authors, I postulated four hypotheses to test in chapter 5:

- That $\frac{1}{\epsilon}$ and $\frac{1}{\epsilon}$ had merged in Seoul, but not Pyongyang.
- That [y] and $[\emptyset]$ were allophones of /we/ and /wi/ following sibilants/palatals.
- That /o/ and /u/ were distinguished by F2 value rather than F1 in Seoul.
- That /o/ and /ʌ/ had merged in Pyongyang.

6.2 Theory and Method

6.2.1 The Problem with "Variety"

The notion that there exists clearly delimited "varieties", whether one wishes to call them "languages", "dialects", "registers", or something else entirely, does not hold water. Instead of assuming that people who live in Seoul speak the same identical "Seoul dialect", we must recognize that there are bound to be individual variations. However, we can and should expect two people of the same age who grew up in the same city and social class to sound similar, especially if they are also of the same sex, since men's and women's vocal tracts tend to be of different sizes, and although any definitive delimitation must be arbitrary, the conventional labels of "language" and "dialect", used informally, are still very useful, as long as we do not pretend that they

are more precise than they really are.

6.2.2 Phoneme Theory

Although our speech organs are capable of making a practically infinite number of noises differing in microscopic configurations of the tongue, slight variations in pitch, and so on, we do not have to be caught up in this to say something meaningful about the *sound system* of a language. Of all the innumerable possible variations, only a few are *phonologically relevant*, meaning that they contribute to the sound system of the language, and, ultimately, to the meaning of what is said. We can use the phonologically relevant features to find systems of oppositions, which we can then organize into *phonemes*, which are "the sum of the phonologically relevant properties of a sound". For a vowel system, the relevant properties are the degree of sonority and timbre, or aperture/closeness and backness in articulatory terms, though some systems have additional phonologically relevant properties, like nasality.

When considering a vowel system where vowels are distinguished by their degree of sonority and timbre, we can observe a pattern where the more sonorous members of the system contrast in timbre with as many or fewer than the less sonorous members, but rarely more. Many systems tend not to distinguish *any* degrees of timbre at all at the most sonorous level, leading the system to have a triangular shape, rather than a quadrangular one.

6.2.3 Method

Originally, the plan was to have three generations of informants, one male and one female in each, from both Seoul and Pyongyang go through a test battery. This was carried out with two young volunteers from Seoul, but the rest of the data had to be collected from the Internet. In the end, I settled on four informants from each city; two male and two female. The sound files were analyzed in Praat, and I extracted the first, second, and third formant of up to thirty instances of each traditional vowel phoneme for each informant. The first and second formant values were then used to plot the vowels onto a chart, and the third formant served as quality control.

6.3 Data

The data from the young Seoul informants was extracted in three stages, but that of all the other informants was not. The difference between the three stages was very small, and seemed to reflect the speed of the informants' speech slightly. There was great uniformity in the Seoul data, and both the two young informants and the two middle-aged announcers had roughly the same distribution of vowels. The Pyongyang data was also very uniform, but different from the Seoul data in certain ways.

6.4 Analysis and Conclusion

Both data sets indicated a merger of /e/ and / ϵ /, with two of the Pyongyang announcers seemingly trying to distinguish them. Neither data set had more than a few instances of

[y], and there were no instances of $[\emptyset]$ at all, so these were not sampled. The Seoul data seems to show that $\langle u \rangle$ and $\langle o \rangle$ do differ in F2 value rather than F1. The Pyongyang data, on the other hand, shows $\langle o \rangle$ and $\langle a \rangle$ with the same F1 value instead. In addition, $\langle u u \rangle$ appears to be very mid-centralized in most of the Pyongyang informants, although its pronunciation varies.

Table 6.1 shows the vowel system that I think we must conclude with for Seoul. My suggestions for alternative symbols are in parentheses where they differ from the symbols we have used so far. Most notable is of course the three-way distinction of timbre in close back vowels. It should be mentioned that although /u/ (or /ɨ/) was a little mid in the announcers, it was much closer than what we saw in the Pyongyang informants.

Front	Back		
Unrounded	Unrounded	Rou	nded
i	w (i)	u (u)	o (u)
e		Λ	
a			

Table 6.1: Vowel System (Seoul)

Table 6.2 shows the system of the older Pyongyangers with $/\epsilon$ / merged into $/\epsilon$ /, and table 6.3 shows the same system, without a merger of $/\epsilon$ / and $/\epsilon$ /. My suggestions for alternative symbols are in parentheses, and are discussed in section 5.2.1.10. It is

interesting to note the three-way distinction in mid back vowels here, which parallels the close back vowels of Seoul. In the case where /e/ and $/\epsilon/$ are not merged, which could stem from KCTV announcer training, /e/ peculiarly appear between /i/ and $/\epsilon/$, while $/\epsilon/$ is differentiated from /uu/ (or /ə/, /ə/) purely by timbre.

Front	Back		
Unrounded	Unrounded Rounded		Rounded
i	u		
e (ε)	ω (ə, ə)		0 (5)
a			

Table 6.2: Vowel System (Pyongyang, older)

Front	Back			
Unrounded	Unrounded		Rounded	
i				
e	u			
ε	(e, e) w	Λ (Υ)	o (ɔ)	
a				

Table 6.3: Vowel System (Pyongyang, older)

Table 6.4 shows the very symmetrical system of Pyongyang1. It is a clearly triangular system distinguishing three levels of sonority, with the two least sonorous levels distinguishing three degrees of timbre. It could be an indication that the typologically strange system with three degrees of timbre distinguished in mid back vowels is disappearing, and that the younger generation has a more symmetrical one.

Front	Back			
Unrounded	Unrounded	Rounded		
i	ш	u		
e (ε)	Λ (Υ)	0 (0)		
a				

Table 6.4: Vowel System (Pyongyang, younger)

In conclusion, despite the Korean vowel system traditionally being described as a quadrangular system with three levels of sonority and three to four degrees of timbre, it is clear from the data that this description does not fit any of the informants, who instead display a triangular system with three levels of sonority and four degrees of timbre only at the least sonorous level in Seoul and at the mid level of sonority in Pyongyang, both of which are typologically rare, but the typology must follow from the analysis; not the other way around! Pyongyang1 shows a very symmetric triangular three-level system with three degrees of timbre on all but the most sonorous level, which could indicate that this is the direction that current development is taking in Pyongyang.

6.5 Future Research

6.5.1 Extent of this Study

This only serves as a qualitative survey of eight Korean speakers, which means they may not be accurate to generalize from. Though we can reasonably assume that people

living in the same environment to sound similar to each other, it is important to stress that "the same environment", like "speech community", is not a very meaningful term, since no two people live in the exact same environment, and especially not all the time. Nevertheless, considering that we have covered some of the most obvious reasonable criteria such as age and sex, the patterns are likely to be found in other speakers as well.

Since Seoul and Pyongyang are very big cities, it may be reasonable to suspect that people from different parts of the cities may have certain differences in their vowel system. This study has not taken into account precise geography, social class, occupation besides making sure television announcers were present, or more precise age ranges, to name a few possible criteria for selecting informants.

6.5.2 Suggestions for Future Research

A future study should cover more informants and criteria alike. If possible, it should cover at least three generations, both sexes, and ideally take into account occupation. A smaller sample size per vowel is probably also a good idea. Twenty, or even just ten, vowel instances should reveal the general target pronunciation of the vowels, and any unexpected patterns could then be investigated closer.

In particular, the possible difference between /e/ and /ɛ/ in Pyongyang and the nature of /o/ and /u/ in Seoul both merit further study. It might be a good idea to conduct similar studies with more informants, and possibly also from many different places in

the Korean peninsula. It is of course also possible to use the same methods to document the vowel systems of other languages too, and this should probably be done. It seems especially advisable considering the discrepancy between the traditional description of the Korean vowel system and the one found in the Seoul data. This could indicate that similar findings could be made elsewhere as well, and especially in languages that are not yet well-described.

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Appendix A: Interviews from Pyongyang

PyongyangGuide1

me: Is 文化語 the same as Pyongyang dialect?

PG1: Yes. Well, 文化語 is without... what do you call it? Slang? That's the difference.

me: In that case I want to try to speak with a Pyongyang accent.

PG1: Oh, yes! A standard accent.

me: What do you call 'wool' in Korean? You know, like the sheep has?

PG1: You can say 털. Or you can say 羊毛. Both of them mean 'wool'.

me: Is the first one written $\Box \bot \supseteq ?$

PG1: No, ∈ † =.

me: Oh, OK. I think + and \perp sound very similar; I have trouble hearing the difference sometimes.

PG1: Yes, they are very similar.

me: Do you ever mix them up in writing?

PG1: No, they are distinct, so nobody will mix them up.

me: Even children?

PG1: Yes. It's easy to distinguish for Koreans. For me, two sounds in English are

difficult. Like the sound in 'cup' and 'bird'.

me: It's hard for you to hear the difference?

PG1: Yes.

me: Do children mix up \parallel and \parallel sometimes? They are also difficult for me to distinguish.

PG1: They are also similar, but they are not the same, so children can also distinguish them.

me: Is there anything that kids find difficult when they learn how to write?

PG1: Yes, sometimes the letters at the end are difficult. Children sometimes misspell 맑

다 with = ¬ as 막다 with only ¬.

me: And 祝賀 as ネーコト, right?

PG1: Oh, yes. That is also difficult.

me: What do you call the Korean alphabet in Korean?

PG1: What do you mean? 朝鮮글字?

me: OK, 글字 means "letter", right?

PG1: Yes.

PyongyangGuide2

me: Do children even mix up + and \perp ? They are so similar to me.

PG2: No, we can hear the difference.

me: How about \parallel and \parallel ? I have trouble with these.

PG2: No, they are different.

me: What do you call 'dog' in Korean?

PG2: 'Dog' is 개.

me: How about 'crab'?

PG2: Hehe, 'dog' is 개 and 'crab' is 게. Do you hear the difference?

me: $7 \parallel$ and $7 \parallel$? ([$k^h \epsilon$] and [$k^h \epsilon$])

PG2: 개 and 게. ($[k=\epsilon]$ and [k=e])

me: $7 \parallel$ and $7 \parallel$? ([$k^h \epsilon$] and [$k^h \epsilon$])

PG2: 깨 and 께. ($[k'=\epsilon]$ and $[k'=\epsilon]$)

me: How about 'snow' and 'eye'?

PG2: Both are 눈.

me: No difference?

PG2: Hehe, no. Both 눈.

me: How about 'night' and 'chestnut'? Are they both 밤?

PG2: Yes. 밤 and 밤, hehe.

me: Not even a difference in length?

PG2: No. They are pronounced exactly the same.

Appendix B: Word List

살다 이민가다 집에서 계속하다 의심 순간 개천절 민주주의 국가 금색 야망 황소 우유 은색 추운 과학 사랑니 사악 운명 원숭이 소식 . 근육 하늘 왕위 테이블보 새 머리 공격 얘 노르웨이어 세상 장군 육월 세상의 해양 오세요 데이터 일 여유 가득하다 물 월 교육 왼쪽 오른쪽 신성하다

트랙터 발꿈치 결과 여기서 윈다 인어 임 인어 망워 어어 왕복절

Appendix C: Paragraph

Mixed Script

外할아버지, 外할머니와 함께 우리 家族은 이番 여름 스웨덴으로 旅行을 갔다. 遠距離 海外旅行이 처음이신 外할아버지, 外할머니를 為해 父母님께서는 旅行準備를 徹底히 하셨다. 外換銀行에 들러 스웨덴 크로네로 換錢을 하시고, 或是 모를 事故에 對備하여 旅行者保險에도 加入하셨다. 나는 空港에서 무거운 짐을 들며 짐꾼노릇을 自處했다. 飛行中 飛行機體가 甚하게 흔들려 할머니께서 괴로워하셨다. 그래서 乘務員이 멀미藥을 할머니께 歡했다. 스톡홀름에 到着한 後, 우리 家旅은 스칸디나비아 傳統飲食을 맛보기 為해 한 레스토랑에 갔다. 貴한 馴鹿고기로 만든 미트볼을 注文했는데, 어른들께서는 입맛에 맞지 않은지 歡해도 드시지 않으셨다. 德分에 나는 圓없이 미트볼을 먹을 수 있었지만, 할아버지께서는 첫食事때 부터 韓國飲食을 무척 그리워하셨다.

South Korean Orthography

외할아버지, 외할머니와 함께 우리 가족은 이번 여름 스웨덴으로 여행을 갔다. 원거리 해외 여행이 처음이신 외할아버지, 외할머니를 위해 부모님께서는 여행 준비를 철저히 하셨다. 외환은행에 들러 스웨덴 크로네로 환전을 하시고, 혹시 모를 사고에 대비하여 여행자 보험에도 가입하셨다. 나는 공항에서 무거운 짐을 들며 짐꾼 노릇을 자처했다. 비행 중 비행 기체가 심하게 흔들려 할머니께서 괴로워하셨다. 그래서 승무원이 멀미약을 할머니께 권했다. 스톡홀름에 도착한 후, 우리 가족은 스칸디나비아 전통음식을 맛보기 위해 한 레스토랑에 갔다. 귀한 순록 고기로 만든 미트볼을 주문했는데, 어른들께서는 입맛에 맞지 않은지 권해도 드시지 않으셨다. 덕분에 나는 원없이 미트볼을 먹을 수 있었지만, 할아버지께서는 첫 식사때 부터 한국 음식을 무척 그리워하셨다.

Appendix D: Interviews from Seoul

Mixed Script

오늘은 어덯게 여기에 갔어요?

當身의 家族에는 戰爭에서 싸운 사람이 있어요?

統一에 對해 어떻게 생각해요?

South Korean Orthography

오늘은 어덯게 여기에 갔어요?

당신의 가족에는 전쟁에서 싸운 사람이 있어요?

통일에 대해 어떻게생각해요?

Appendix E: Lists of Formant Values

The following pages list the formant values extracted from Praat and used to create the vowel charts.

Seoul1					Seoul4					Pyongyang3				
Seouri	Vowel	F1 F	2 F3	3	Word	Vowel	F1 F2	: F:	3	Word	Vowel	F1 F2	F	3
집에서1	/i/	418	2252	3267	三目2	/i/	545	2358	2831	十二月1	/i/	340	1980	2758
移民가다1	/i/	339	2796	3583	KBS2	/i/	560	2197	2197	十二月2	/i/	306	1863	2569
移民가다2	/i/	484	2732	3237	서비스2	/i/	482	2054	2677	秘書1	/i/	414	1937	2775
疑心2	/i/	378	2519	3333	職場1	/i/	472	2093	2936	이신1	/i/	439	1767	2629
民主主義4	/i/	410	3027	3522	李	/i/	409	2480	3709	이신2	/i/	442	1820	2613
小食2	/i/	395	2150	3191	必要한1	/i/	415	2153	2805	우리2	/i/	430	1968	2650
테이블褓2	/i/	404	2634	2861	確定日字3	/i/	521	2051	2644	人民軍1	/i/	381	1920	2702
노르웨이語4	/i/	356	2758	3555	인터넷1	/i/	430	2284	3135	人民軍2	/i/	489	1934	2649
머리2	/i/	385	2845	3568	이밖에1	/i/	390	2543	3265	人民들은2	/i/	418	1910	2589
일	/i/	397	2557	3186	인터넷1	/i/	412	2524	3156	同志2	/i/	353	1892	2726
					處理2	/i/	483	2357	2824	時期1	/i/	358	1849	2695
外할아버지5	/i/	504	2698	3191	있는1	/i/	460	2321	2625	時期2	/i/	358	1899	2680
外할머니4	/i/	439	3013	3476	李	/i/	379	2422	3093	黨0 2	/i/	449	2081	2737
우리2	/i/	407	2692	3094	, 記者 1	/i/	383	2347	3005	우리2	/i/	371	1994	2758
0 番1	/i/	370	2871	3167	입니다2	/i/	397	2251	3224	金正曰3	/i/	441	1757	2499
遠距離3	/i/	493	2618	3202	두名이3	/i/	540	2316	2914	同志2	/i/	488	1916	2773
旅行이3	/i/	442	2617	3389	숨지고2	/i/	486	2013	2753	것이2	/i/	423	1840	2752
外할머니4	/i/	389	2733	3569	한名이3	/i/	592	2445	2786	全民2	/i/	383	1919	2468
飛行1	/i/	437	2502	3220	進行1	/i/	406	2462	3563	同志2	/i/	406	1898	2520
飛行1	/i/	474	2475	3290	하기2	/i/	458	2504	4066	一心1	/i/	411	1823	2476
우리2	/i/	439	2575	3280	0 番1	/i/	444	2279	3265	一心2	/i/	323	1925	2885
					대단히3	/i/	596	2404	3012	一黨1	/i/	332	1931	2534
여기2	/i/	419	2748	3370	無理2	/i/	386	2556	4162	人民1	/i/	301	2159	2912
地下鐵1	/i/	442	2159	3270	導入2	/i/	454	2247	2722	人民2	/i/	458	2055	2706
入口1	/i/	488	2456	3226	李	/i/	412	2407	3038	生活이3	/i/	427	1847	2378
△□□ 當身2														
	/i/	431	2081	3299	食口1	/i/	441	2086	2537	將軍出3	/i/	411	2051	2761
할머니3	/i/	472	2434	3309	避할수1	/i/	513	2189	3097	우리2	/i/	302	1969	2687
日本1	/i/	452	2488	3250	金	/i/	368	2373	3174	信心1	/i/	356	2006	2827
避身1	/i/	323	2506	3222	아직도2	/i/	590	2067	2713	信心2	/i/	373	1906	2869
統一2	/i/	431	2332	3085	加入2	/i/	490	2421	2995	人民軍1	/i/	335	2179	2721
같이	/i/	439	2543	3278										
이나1	/i/	490	2484	3203	Word	Vowel	F1 F2	: F:	3	Word	Vowel	F1 F2	F	3
					規制2	/e/	625	2083	2798	에서1	/e/	460	1965	2510
Word	Vowel	F1 F:	2 F3	3	傳貰契約2	/e/	662	2075	2856	第一1	/e/	455	1815	2508
繼續하다1	/e/	503	2500	3179	傳貰契約3	/e/	499	2219	2758	께서1	/e/	439	1932	2425
테이블褓1	/e/	606	2623	3208	인터넷3	/e/	651	1959	2912	우리의3	/e/	410	1819	2587
世上1	/e/	658	2430	3304	이밖에3	/e/	527	2259	2638	民族의3	/e/	458	1805	2463
世上의 海洋1			2458	3303	인터넷3		635	2016	2884	別 別		428	1809	2520
	/e/	610			-	/e/					/e/			
世上의 海洋3	/e/	766	2451	3282	繼續1	/e/	436	2114	2674	에	/e/	457	1784	2576
									2594					
오세요2	/e/	422	2482	3292	하게2	/e/	547	2195		同志의3	/e/	432	1857	2487
오세요2 데이터1	/e/ /e/	422 422	2482 2652	3292 3234	하게2 한게2	/e/	579	1890	2439	그런데3	/e/	454	1763	2457
					한게2	/e/	579	1890	2439	그런데3	/e/	454	1763	2457
데이터1	/e/	422	2652	3234	한게2 에서1	/e/ /e/	579 483	1890 2060	2439 2647	그런데3 主體2	/e/ /e/	454 439	1763 1740	2457 2576
데이터1 함께2 에	/e/ /e/	422 454 667	2652 2618 2577	3234 3073 3185	한게2 에서1 만든건데4 訓練 에3	/e/ /e/ /e/	579 483 610 571	1890 2060 1995 1976	2439 2647 2866 2907	그런데3 主體2 時期의3 黨 의2	/e/ /e/ /e/	454 439 443 503	1763 1740 1861 1924	2457 2576 2584 2531
데이터1 함께2 에 께서1	/e/ /e/ /e/	422 454 667 489	2652 2618 2577 1911	3234 3073 3185 3246	한게2 에서1 만든건데4 訓練 에3 에	/e/ /e/ /e/ /e/	579 483 610 571 664	1890 2060 1995 1976 2033	2439 2647 2866 2907 2606	그런데3 主體2 時期의3 黨 의2 黨 의2	/e/ /e/ /e/ /e/	454 439 443 503 530	1763 1740 1861 1924 1915	2457 2576 2584 2531 2297
데이터1 함께2 에 께서1 께	/e/ /e/ /e/ /e/	422 454 667 489 472	2652 2618 2577 1911 2621	3234 3073 3185 3246 3289	한게2 에서1 만든건데4 訓練에3 에 放送의3	/e/ /e/ /e/ /e/ /e/	579 483 610 571 664 686	1890 2060 1995 1976 2033 2182	2439 2647 2866 2907 2606 2729	그런데3 主體2 時期의3 黨의2 黨의2 張成澤의4	/e/ /e/ /e/ /e/ /e/	454 439 443 503 530 465	1763 1740 1861 1924 1915 1821	2457 2576 2584 2531 2297 2517
데이터1 함께2 에 께서1 께 스톡홀름에5	/e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625	2652 2618 2577 1911 2621 1798	3234 3073 3185 3246 3289 3466	한게2 에서1 만든건데4 訓練에3 에 放送의3 오늘의3	/e/ /e/ /e/ /e/ /e/ /e/	579 483 610 571 664 686 594	1890 2060 1995 1976 2033 2182 2250	2439 2647 2866 2907 2606 2729 2835	그런데3 主體2 時期의3 黨의2 黨의2 張成澤의4 精製2	/e/ /e/ /e/ /e/ /e/ /e/	454 439 443 503 530 465 493	1763 1740 1861 1924 1915 1821 1743	2457 2576 2584 2531 2297 2517 2236
함께2 에 께서1 께 스톡홀름에5 레스토랑에1	/e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625 558	2652 2618 2577 1911 2621 1798 1909	3234 3073 3185 3246 3289 3466 3244	한게2 에서1 만든건데4 訓練에3 에 放送의3 오늘의3 放送의3	lel lel lel lel lel lel	579 483 610 571 664 686 594 619	1890 2060 1995 1976 2033 2182 2250 2233	2439 2647 2866 2907 2606 2729 2835 2727	그런데3 主體2 時期의3 黨의2 黨의2 張成澤의4 精製2 에서1	lel lel lel lel lel lel	454 439 443 503 530 465 493 466	1763 1740 1861 1924 1915 1821 1743 1838	2457 2576 2584 2531 2297 2517 2236 2343
한께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5	/e/ /e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625 558 751	2652 2618 2577 1911 2621 1798 1909 2347	3234 3073 3185 3246 3289 3466 3244 3378	한게2 에서1 만든건데4 訓練에3 에 放送의3 오늘의3 放送의3 放送의3	lel lel lel lel lel lel	579 483 610 571 664 686 594 619 651	1890 2060 1995 1976 2033 2182 2250 2233 2216	2439 2647 2866 2907 2606 2729 2835 2727 2671	그런데3 主體2 時期의3 黨의2 黨成2 張成2 張成2 에서1 張成2 場別4	/e/ /e/ /e/ /e/ /e/ /e/ /e/	454 439 443 503 530 465 493 466 469	1763 1740 1861 1924 1915 1821 1743 1838 1896	2457 2576 2584 2531 2297 2517 2236 2343 2616
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3	/e/ /e/ /e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625 558 751 523	2652 2618 2577 1911 2621 1798 1909 2347 2442	3234 3073 3185 3246 3289 3466 3244 3378 3338	한게2 에서1 만든건데4 訓練에3 에 放送의3 오늘의3 放送의3 放送의3	/e/ /e/ /e/ /e/ /e/ /e/ /e/	579 483 610 571 664 686 594 619 651 547	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619	그런데3 主體2 時期의3 黨의2 黨의2 張成澤의4 精製2 에서1 張成澤의4 하나의3	/e/ /e/ /e/ /e/ /e/ /e/ /e/	454 439 443 503 530 465 493 466 469 464	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494
해이터1 함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 께서는1	/e/ /e/ /e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625 558 751 523 524	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219	한게2 에서1 만듣건데4 訓練에3 예 放送의3 오늘의3 放送의3 放送에3 네	lel lel lel lel lel lel	579 483 610 571 664 686 594 619 651 547	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752	그런데3 主體2 時期의3 黨의2 禁의2 張成澤의4 精製2 에서1 張成澤의4 하나의3	/e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/	454 439 443 503 530 465 493 466 469 464 446	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3	/e/ /e/ /e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625 558 751 523	2652 2618 2577 1911 2621 1798 1909 2347 2442	3234 3073 3185 3246 3289 3466 3244 3378 3338	한게2 에서1 만듣건데4 訓練에3 예 放送의3 오늘의3 放送의3 放送에3 네 그런데3 保稅2	/e/ /e/ /e/ /e/ /e/ /e/ /e/	579 483 610 571 664 686 594 619 651 547	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619	그런데3 主體2 時期의3 黨의2 黨成プ 制 執 製2 에서1 張成プ의4 하나의3 하나의3 中心의3	/e/ /e/ /e/ /e/ /e/ /e/ /e/	454 439 443 503 530 465 493 466 469 464	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494
해이터1 함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 께서는1	/e/ /e/ /e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625 558 751 523 524	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219	한게2 에서1 만듣건데4 訓練에3 예 放送의3 오늘의3 放送의3 放送에3 네	/e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/	579 483 610 571 664 686 594 619 651 547	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752	그런데3 主體2 時期의3 黨의2 禁의2 張成澤의4 精製2 에서1 張成澤의4 하나의3	/e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/	454 439 443 503 530 465 493 466 469 464 446	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500
해이터1 함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 께서는1	/e/ /e/ /e/ /e/ /e/ /e/ /e/	422 454 667 489 472 625 558 751 523 524	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219	한게2 에서1 만듣건데4 訓練에3 예 放送의3 오늘의3 放送의3 放送에3 네 그런데3 保稅2	lel lel lel lel lel lel lel lel	579 483 610 571 664 686 594 619 651 547 677 582	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568	그런데3 主體2 時期의3 黨의2 黨成プ 制 執 製2 에서1 張成プ의4 하나의3 하나의3 中心의3	/e/	454 439 443 503 530 465 493 466 469 464 446 457	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 께서는1 德分에3	lel	422 454 667 489 472 625 558 751 523 524 805	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377	한게2 에서1 만든건데4 訓練에3 에 放送의3 文불의3 放送의3 放送에3 네 그런데3 保税2 健物의3 에서1	lel lel lel lel lel lel lel lel lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546	그런데3 主體2 時期의3 黨의2 黨成隊목의4 積製2 에서1 張成隊목의4 하나의3 하나의3 학나의3 백의2 께서는1	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 께서는1 德分에3	lel	422 454 667 489 472 625 558 751 523 524 805	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060	한게2 에서1 만들건데4 訓練에3 에 放送의3 오늘의3 放送의3 다한건데3 保稅2 健物의3 대부마의4	/e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/	579 483 610 571 664 686 594 651 547 677 582 603 484 550	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599	그런데3 主體2 時期의3 黨의2 襲의2 張成製2 에서1 張成澤의4 하나의3 하나의3 中心의3 부산의3 제체는1 제末의2	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했스토래3 께서는1 德分에3	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329	한게2 에서1 만들건데4 訓練에3 에 放送의3 오늘의3 放送의3 보 등 의3 放送 에3 니 그런데3 保稅2 健物의3 에서1 工事中에4 때문에3	/e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/	579 483 610 571 664 686 594 615 547 677 582 603 484 550 675	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765	그런데3 主體2 時期의3 黨의2 寒成製2 에서1 張다비3 하나의3 하나의3 학나의3 학나의3 학사의3 학사의3 학사의3	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 께서는1 德分에3	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631 497	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045	한게2 에서1 만들건데4 訓練에3 예 放送의3 오늘의3 放送에3 니 그런데3 保稅2 健物의3 에서1 工事中에4 따字에3	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683	그런데3 主體2 時期의2 黨成型의2 蒙成製2 에서1 張成型의4 하나의3 하나의3 中心의2 께서는1 記體2 同志體2	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691
함께2 에 제서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 했는데3 에 는1 德分에3	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215	한게2 에서1 만든건데4 訓練에3 에 放送의3 及들의3 放送에3 네 그런데3 (R稅2 健物의3 에서1 工事中에4 때문에3 에서1 하는데3	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759	그런데3 主時期의3 黨與의2 票成製2 에서1 張사나의3 하나의3 하나의3 하나의3 하나의3 하나의3 하나의3 하라의2 트립 프레크 = 13	lel	454 439 443 503 530 465 493 466 469 464 457 453 485 449 459 430 437	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685
태이터1 함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 께서는1 德分에3 어떻게3 에 當身에3 에서는1 에서1	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103	3234 3073 3185 3246 3289 3466 3244 3378 3219 3377 3347 3060 3329 3045 3215 3183	한게2 에서1 만든건데4 訓練에3 예 放送의3 오늘送3 放送 네 그런데3 保稅2 健物의3 에서1 工무에4 때문에3 에서1 다당에3	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650	그런데3 主體2 時期의2 黨의2 環成型2 强成型2 에서1 環体1 행사의3 하나의3 하나의3 中心의3 보기 보기 1 보기 2 교환2 교환2 교환3 교환3 교환3 교환3 교환3 교환3 교환3 교환3 교환3 교환3	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624
함께2 에 제서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했는데3 했는데3 에 는1 德分에3	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215	한게2 에서1 만들건데4 訓練에3 에 放送의3 오늘의3 放送 네그런데3 保税2 健物1 工事에4 때문에3 에서1 따문에3 에서1 다는종의3 성經濟2	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2076 2243 2078	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2646 2599 2765 2683 2759 2650 2650	그런데3 主體 2 의 2 票 3 票 3 票 3 의 2 票 4 이 4 5 5 6 7 8 8 8 8 8 8 8 9 9 1 9 1 9 3 8 8 8 8 8 9 1 9 1 9 1 9 1 9 3 8 8 8 8 8 8 8 9 1 9 1 9 1 9 1 9 1 9 1 9	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했서는1 德分에3 어떻게3 에 서는1 에서는1 에서는1 에서1	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 582 511	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160	한게2 에서1 만들건데4 訓練 예 放送의3 오늘의3 放送네 그런데3 保稅2 健物의3 에서1 工事中에4 때문에3 에서1 하는데3 檢察濟2 베란다1	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 1977 1980	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2663 2820	그런데3 主時期의의 黨與成製2 에서成型의2 環状製2 에서成型의3 하나나의3 하나나의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학교의4 학교의4 학교의2	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420 497	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1898 1949 1928 1935 1880 1860	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580 2446
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토라에5 했는데3 께서는1 徳分에3 어떻게3 에 해서는1 에서1 에 어떻게3	lei	454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 F5	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160	한게2 에서1 만들건데4 訓練에3 에 放送의3 오늘의3 放送 네그런데3 保税2 健物1 工事에4 때문에3 에서1 따문에3 에서1 다는종의3 성經濟2	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2076 2243 2078	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2646 2599 2765 2683 2759 2650 2650	그런데3 主體 2 의 2 票 3 票 3 票 3 의 2 票 4 이 4 5 5 6 7 8 8 8 8 8 8 8 9 9 1 9 1 9 3 8 8 8 8 8 9 1 9 1 9 1 9 1 9 3 8 8 8 8 8 8 8 9 1 9 1 9 1 9 1 9 1 9 1 9	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토랑에5 했서는1 德分에3 어떻게3 에 서는1 에서는1 에서는1 에서1	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160	한게2 에서1 만들건데4 訓練 예 放送의3 오늘의3 放送네 그런데3 保稅2 健物의3 에서1 工事中에4 때문에3 에서1 하는데3 檢察濟2 베란다1	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 1977 1980 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2650 2630 2820 3028	그런데3 主時期의의 黨與成製2 에서成型의2 環状製2 에서成型의3 하나나의3 하나나의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학교의4 학교의4 학교의2	lel	454 439 443 503 530 465 493 466 469 464 457 453 485 449 459 430 437 410 420 497 451	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880 1860	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580 2446
함께2 에 께서1 께 스톡홀름에5 레스토랑에1 레스토라에5 했는데3 께서는1 徳分에3 어떻게3 에 해서는1 에서1 에 어떻게3	lei	454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 F5	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160	한게2 에서1 만들건데4 訓練 예 放送의3 오늘의3 放送네 그런데3 保稅2 健物의3 에서1 工事中에4 때문에3 에서1 하는데3 檢察濟2 베란다1	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 1977 1980 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2650 2630 2820 3028	그런데3 主時期의의 黨與成製2 에서成型의2 環状製2 에서成型의3 하나나의3 하나나의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학사는의3 학교의4 학교의4 학교의2	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420 497	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880 1860	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2585 2624 2586 2473
함께2 에 께서1 께 스톡 흘름에5 레스토랑에1 레스토랑에5 했는데3 했는데3 에 하는1 徳分에3 어떻게3 에 어떻게3 에 어서는1 에서1 에 어떻게3	lei	454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F52 2473	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160	한게2 에서1 만들練에3 예 送의3 放送의3 放送 의3 放送 등의3 放送 등의3 放送 등의3 대 한대3 대 한대3 대 부마에4 대 부마에4 대 등의3 에서1 지 는데3 성종濟2 비 에 등의3	lel	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 1977 1980 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2650 2630 2820 3028	그主時期9일 3 黨職期9일 3 東京成製 41 東京成製 41 東京成製 41 東京成製 41 東京 41 東 41 東 41 東 41	lel	454 439 443 503 530 465 493 466 469 464 457 453 485 449 459 430 437 410 420 497 451	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880 1860	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2585 2624 2586 2473
태이터1 함께2 에 께서1 께 수록 를름에5 레스토랑에1 레스토랑에5 했는데3 께서는1 德分에3 어떻게3 에 버는1 에서 1 에 어떻게3	lel	454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 511 F1 F: 512 627 719	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F5 2473 2683 2291	3234 3073 3185 3246 3289 3466 3244 3378 3377 3347 3060 3329 3045 3215 3183 3160	한게2 에서1 만들여에3 예 일3 호보送送 에 일의3 放送들의3 放送 비대3 단税2 健物1 그런税2 健物1 파문에3 에서1 파문에3 에서1 하た經濟2 베어 어는주의3 에서1 하산종濟2 비에 어는주에 어떤 연기 어떤 연기 어떤 어떤 어떤 어떤 어떤 어떤 어떤 어떤 어떤 어떤	/e/	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2076 2243 2076 21980 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2599 2765 2683 2759 2650 2663 2820 3028	그主時 2 의 3 東京 2 의 4 위 의 2 및 의 2 및 의 2 및 의 4 위 기 2 및 의 4 기 3 및 의 4 기 3 의 3 의 3 의 3 의 2 는 1 의 3 의 3 의 2 는 1 의 3 의 3 의 3 의 3 의 2 및 의 2 및 의 2 및 의 2 및 의 2 및 의 2 및 의 2 및 의 2 및 의 3 의 3 의 3 의 3 의 3 의 3 의 3 의 3 의 3 의	lel lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420 497 451 F1 F2 505	1763 1740 1861 1924 1915 1821 1743 1838 1896 1800 1845 1917 1898 1928 1929 1928 1935 1880 1860 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580 2446 2473
해기 의 에 기 에 기 에 기 에 기 에 기 에 기 에 기 에 기 에 기		454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 511 F1 F1 512 627 719 482	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F52 2473 2683 2291 2584	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160 3191 3155 3300 3390	한게2 에서1 만들전데4 訓練에3 에 送의3 오항送 의3 放送 의3 放送 네그런데3 保稅2 健物의3 에서1 工事문에3 에서1 丁事문에3 에서1 하는편3 행근라1 에 Word 大統領1	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 564	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 1977 1980 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2663 2820 3028	그主時 (교육 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대		454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420 497 451 F1 F2 505 448	1763 1740 1861 1924 1915 1821 1743 1838 1896 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880 1860 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580 2446 2473
태이터1 함께2 에 께서1 께 수록 를름에5 레스토랑에1 레스토랑에5 했는데3 께서는1 德分에3 어떻게3 에 버는1 에서 1 에 어떻게3	lel	454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 511 F1 F: 512 627 719	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F5 2473 2683 2291	3234 3073 3185 3246 3289 3466 3244 3378 3377 3347 3060 3329 3045 3215 3183 3160	한게2 에서1 만들練에3 에 送들送送에3 의의3 放放네 런稅2 의의3 에서1 런稅物의3 에서1 파문에3 에서1 파무에3 에서1 다데3 檢濟란다1 에 Word 領第1	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 564 498	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2663 2820 3028	그主時黨黨張精에成型의 의 3 의 2 의 3 의 2 의 3 의 3 의 2 의 3 의 3 의 3 의 3 의 3 의 3 의 3 의 3 의 3 의 3	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 430 437 410 420 497 451 F1 F2 505 448 429	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880 1860 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2694 2580 2446 2473
태이터1 함께2 에 께서1 께 독홀트에5 레스토랑에5 했는데3 께서는1 德 分에3 어떻게3 에 하나는1 에서 1 에 어떻게3	lei	422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511 F1 F1 512 627 719 482 405	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 2473 2683 2291 2584 2786	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160 3191 3155 3300 3390 3436	한게2 에서1 만들練에3 예 送의3 오늘送送 데런稅2 역하시 대한의3 이사파문대 이사파문대 이사다대 이사다대 이사다대 이사다대 이사다대 이사다대 이사다대 이사다	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 564 498 551	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 1977 1980 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2663 2820 3028	그主時2 의 2 로 등期의2 로 成製2 의 2 環 成製2 에 대域의3 하나나의3 하나나의3 하나나의2 는 는 의 3 로 등의의2 등 등의의2 등 등의의2 등 등의의2 등 등의의2 등 등의의2 등 등의의2 등 등의의2 등 등의의2 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등	lel	454 439 443 503 530 465 493 466 469 464 457 453 485 449 430 437 410 420 497 451 F1 F2 505 448 429 462	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1894 1928 1935 1880 1860 1800	2457 2576 2584 2531 2297 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2585 2624 2585 2624 2573 2516 2473
태이터1 함께2 에 께서1 께서1 께 독통량에5 레스토랑에5 했는데3 께서는1 徐介에3 어떻게3 에서는1 에서1 에 어떻게3 Word 開金色2 銀代, 의 海洋4 旅行2		454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511 F1 F: 512 627 719 482 405	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F3 2473 2683 2291 2584 2786	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3215 3183 3160 3191 3155 3300 3390 3436 3118	한게2 에서1 만들練에3 에 送일의3 호상送 의의3 네 크랜 에의 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 564 498	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2243 2076 2059 2059 2059 2059 2059 2059 2059 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2650 2663 2820 3028	대3 1 主時	lel	454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420 497 451 F1 F2 505 448 429 462 474	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880 1860 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580 2446 2473 3 3 2538 2662 2739 2517 2488
태이터1 함께2 에 께서1 께 두 를 름에5 레스트링에5 번대3 께서는데3 에 살 에 3 에 불 에 3 에 4 는 1 에 어 명에 3 에 서는 1 에 어 명에 3 에 서는 1 에 어 명에 3 Word 開 至 2 銀 世 2 海外 1		454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 511 F1 F: 512 627 719 482 405	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F5 2473 2683 2291 2584 2786 2382 2592	3234 3073 3185 3246 3289 3466 3244 3378 3377 3347 3060 3329 3045 3215 3183 3160 3191 3155 3300 3390 3436 3118 3293	한게2 에서1 만듦練 의3 의의3 의의3 에 送늘送送 데3 덕稅 행기 무에3 에 나는察 1 의의3 에 대3 역 1 대 대3 에 사 부에3 에 사 부에3 에 사 부에3 에 사 본 환경	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 564 498 551 700 562	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2076 2243 2076 2243 2076 2113 2059 F5 2113 2051 1945 2093 2093 2093 2094 2094 2095 2093 2094 2094 2095 2094 2095 2097 2097 2097 2097 2097 2097 2097 2097	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2646 2599 2765 2683 2759 2650 2663 2820 3028 3 2771 2772 2577 2794 2714 2779	리主時 東京 리主時期 의 3 의 2 의 2 財 의 2 関 2 의 3 의 3 의 4 의 4 의 3 의 3 의 3 의 3 의 3 의 3 의 3 의 3		454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 420 497 451 F1 F2 505 448 429 462 474 540	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1880 1860 1800 1870 1707 1790 1946 1675 1705 1811	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580 2446 2473 3 2538 2662 2739 2517 2488 2496
태이터1 함께2 에 제서1 께서1 제목 를 등에1 레스트링3 제서는13 제서는13 에 하나는1 에 하나는1 에 하나는1 에서1 에 당에3 에서1 에 당에3 에서1 에 당에3 에서1 에 당에3 에서1 에 당한2 에서1 에 당한3 에서1 에 당한3 에서1 에 당한3 에서2 에 당한3 에서2 에 당한3 에서2 에 당한3 에서4 에 당한4 에 당한4 에 당한4 에 당한4 에 당한4 에 당한4 에 당한4 에 당한5 에 당한4 에 당 등 이 당 이 당 이 당 이 당 이 당 이 당 이 당 이 당 이 당 이 당		422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 511 F1 F: 512 627 719 482 405 488 577 536	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F3 2473 2683 2291 2584 2786	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160 3191 3155 3300 3390 3436 3118 3293 3158	한게2 에서1 만들練에3 에 送의3 성의3 성 의의3 성 의의3 성 의의3 성 의의3 성 에 그 무연의3 에 지事문에3 에 자는察濟란다1 에 Word (統消1 왕이 전 및 1 왕이 전 및 1 왕이 전 및 1 왕이 전 된 1 왕이 전 및 1 왕이 전 1 왕이 2 왕이 2 왕이 2 왕이 2 왕이 2 왕이 2 왕이 2 왕이 2	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 564 498 551 700 562 622	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 2059 F3 2113 2051 1945 2093 21145 2093 21173 2075	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2799 2650 2663 2820 3028 3 2771 2772 2577 2794 2719 2775	그主時黨黨張精에張하하中黨別同主同革오黨黨黨 W大偉重張張書偉		454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420 497 451 F1 F2 505 448 429 464 457 451 451 451 451 451 451 451 451 451 451	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1860 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2473 3 2538 2446 2473 3 2538 2662 2739 2517 2488 2692 2494 2500 2446 2473
태이터1 함께2 에 서1 께서1 께목 홀팅에1 레스트링3 했는서는1 3 에상이3 어떻게3 에상이나는1 에서1 에 당에 제3 에서1 에서1 에 어떻게3 에서1 에서1 에서1 에서1 에서1 에서2 등은2 銀새 보는의의 주어2 第十十二 (本) (本) (本) (本) (本) (本) (本) (本) (本) (本)		422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511 F1 F1 512 627 719 482 405 488 577 536 649	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F3 2483 2291 2584 2786 2382 2592 2588 2413	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160 3191 3155 3300 3390 3436 3118 3293 3158 3293 3158 3222	한게2 에서1 만능練 의3 생동 등送送 대3 의의3 성 대3 의의3 에서 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 498 551 700 562 622 648	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 2059 2113 2051 1945 2093 2113 2051 1945 2093 2113 2093 2113 2093 2113 2093 2113 2093 2113 2093 2113 2093 2114 2093 2115 2116 2117 2117 2118 2118 2118 2119 2119 2119 2119 2119	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2663 2820 3028 3028	口主時黨黨張精에張하하中黨別同主同革오黨黨黨 W大偉重張張害偉張明의의 2 및 의 의 의 의 의 의 의 의 의 의 의 의 의 의 의 의 의		454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 430 437 410 420 497 451 F1 F2 505 448 429 462 474 540 504 504	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1898 1935 1860 1800 1800 1800	2457 2576 2584 2534 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2694 2580 2446 2473 2517 2486 2473 2517 2488 2498 2498
데이터1 함께2 에 꺼서1 께서1 제목를링에5 레스토랑에5 했서는데3 제상는데3 에어 등에3 에서1 에어 등에3 에서1 에어 어떻게3 Word 節1 으은 2 새世上 旅外1 旅為行2 添行1 旅為行2		422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511 F1 F: 627 719 482 405 488 577 536 649 550	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F3 2683 2291 2584 2786 2382 2592 2588 2413 2591	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3118 3155 3300 3390 3436 3118 3293 3118 3293 3158	한게2에서1 만해 3에 3에 2의 3 호놀送送 데면稅 9의 3 이 1 한 1 한 2의 3 1 한 2의 3 1 한 2의 3 1 한 3의 3 1 한 3	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 564 498 551 700 562 622 648 546	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 1977 1980 2059 2113 2059 2113 2059 2113 2059 2113 2059 2113 2059 2113 2059 2113 2059 2113 2059	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2663 2820 3028 2771 2771 2774 2774 2775 2794 2714 2775 2961 2786	고主時黨黨張精에張하하中黨州同主同革之黨黨黨 W大偉重張張害偉張行門 2 2 澤2 1 澤의3 3 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2		454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 459 430 437 410 420 497 451 F1 F2 505 448 429 462 474 504 504 604 604 604 605 605 605 605 605 605 605 605 605 605	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1864 1949 1928 1935 1860 1800 1800 1800 1800 1800 1800 1800	2457 2576 2584 2531 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2624 2580 2446 2473 3 2518 2624 2739 2517 2488 2496 2508 2498 2498 2408 2408 2473
태이터1 함께2 에 서1 께서1 께목 홀팅에1 레스트링3 했는서는1 3 에상이3 어떻게3 에상이나는1 에서1 에 당에 제3 에서1 에서1 에 어떻게3 에서1 에서1 에서1 에서1 에서1 에서2 등은2 銀새 보는의의 주어2 第十十二 (本) (本) (本) (本) (本) (本) (本) (本) (本) (本)		422 454 667 489 472 625 558 751 523 524 805 507 575 631 497 692 682 511 F1 F1 512 627 719 482 405 488 577 536 649	2652 2618 2577 1911 2621 1798 1909 2347 2442 2186 2147 2740 2428 2115 2166 1897 2103 2250 2 F3 2483 2291 2584 2786 2382 2592 2588 2413	3234 3073 3185 3246 3289 3466 3244 3378 3338 3219 3377 3347 3060 3329 3045 3215 3183 3160 3191 3155 3300 3390 3436 3118 3293 3158 3293 3158 3222	한게2 에서1 만능練 의3 생동 등送送 대3 의의3 성 대3 의의3 에서 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등 한 등	e e	579 483 610 571 664 686 594 619 651 547 677 582 603 484 550 675 566 621 505 600 638 704 F1 F2 632 498 551 700 562 622 648	1890 2060 1995 1976 2033 2182 2250 2233 2216 2082 1942 1988 2003 2081 1965 2076 2243 2078 1910 2059 2113 2051 1945 2093 2113 2051 1945 2093 2113 2093 2113 2093 2113 2093 2113 2093 2113 2093 2113 2093 2114 2093 2115 2116 2117 2117 2118 2118 2118 2119 2119 2119 2119 2119	2439 2647 2866 2907 2606 2729 2835 2727 2671 2619 2752 2568 2643 2546 2599 2765 2683 2759 2663 2820 3028 3028	口主時黨黨張精에張하하中黨別同主同革오黨黨黨 W大偉重張張害偉張明의의 2 및 의 의 의 의 의 의 의 의 의 의 의 의 의 의 의 의 의		454 439 443 503 530 465 493 466 469 464 446 457 453 485 449 430 437 410 420 497 451 F1 F2 505 448 429 462 474 540 504 504	1763 1740 1861 1924 1915 1821 1743 1838 1896 1766 1800 1845 1917 1898 1787 1898 1935 1860 1800 1800 1800	2457 2576 2584 2534 2297 2517 2236 2343 2616 2494 2500 2674 2454 2343 2510 2746 2691 2685 2694 2580 2446 2473 2517 2486 2473 2517 2488 2498 2498

그래서2	/٤/	543	1890	3272	部隊2	/٤/	552	2122	2697	해도1	/٤/	486	1910	2370
했는데1	/٤/	423	2293	3541	施行2	/٤/	613	2114	2815	 行為1	/٤/	529	1760	2556
勸해도2	/ε/	567	1901	3245	對해1	/ε/	537	1995	2742	張成澤3	/ε/	515	1747	2560
때	/٤/	623	1733	3265	對해2	/ε/	526	2062	2752	行為1	/٤/	439	1923	2327
7.1.					加入해3	/ε/	634	2152	2771	張成澤3	/٤/	511	1733	2526
弘大2	/٤/	540	2134	3255	생각1	/ε/	577	1990	2835	偉大한2	/٤/	403	1875	2758
戰爭2	/٤/	752	1876	3318	百圓1	/٤/	612	2070	2786	行為1	/٤/	468	1844	2354
생각해요1	/٤/	305	2049	3145	管理實態4	/ε/	683	2107	2716	張成澤3	/٤/	504	1748	2493
생각해요3	/٤/	431	2613	3215	생긴1	/ε/	511	2131	2763	張成澤3	/٤/	445	1840	2432
0 1-1122-					때문에1	/٤/	476	2026	2758	張成澤3	/ε/	505	1669	2262
Mand	Vowel	F1 F2	F3		學生2	/E/	660	1944	2855	執行2	/ε/		1710	2305
Word												456		
살다1	/a/	###	1323	2772	學生2	/ε/	633	2061	2785	行為1	/٤/	588	1778	2494
살다2	/a/	976	1341	3007	同生2	/ε/	610	2226	2652	張成澤3	/٤/	479	1815	2450
移民가다3	/a/	898	1285	2934	背任嫌疑1	/٤/	545	2243	2792	行為1	/٤/	514	1824	2429
移民가다4	/a/	907	1214	2273	發生2	/ε/	524	2036	2882	行為1	/٤/	510	1776	2452
繼續하다3	/a/	880	1357	2897	땐	/ε/	534	2089	2763	張成澤3	/٤/	480	1783	2241
繼續하다4	/a/	969	1438	3094	_ 對한1	/٤/	500	2168	2809	張成澤3	/٤/	463	1816	2451
瞬間2	/a/	923	1392	3251	大統領1	/ε/	537	1892	2767	行為1	/ε/	477	2096	2635
					大統領1									
國家2	/a/	919	1325	2967		/ε/	479	1973	2771	張成澤3	/٤/	435	1850	2523
野望1	/a/	972	1410	3555	大統領1	/ε/	593	1979	2778	生活1	/٤/	457	1920	2177
野望2	/a/	###	1392	3464										
科學2	/a/	987	1428	3093	Word	Vowel	F1 F2	F3	3	Word	Vowel	F1 F2	F:	3
사랑니1	/a/	937	1488	3030	三目1	/a/	849	1214	1718	勞動黨3	/a/	715	1208	2556
邪惡1	/a/	###	1396	2915	朴大統領1	/a/	844	1067	1641	敬愛하는3	/a/	682	1366	2404
邪惡2	/a/	###	1440	2934	三	/a/	867	1177	1626	하였다1	/a/	663	1071	2601
3 P. L. L	<i>i</i> ai	nnn	1440	2004	一 對象1	/a/	698	1075	1630	参加 1	/a/	658	919	2927
H = 1 a l u l = 10		074	4500	0404										
外할아버지2	/a/	971	1588	3181	할때1	/a/	722	1030	1900	参加2	/a/	651	1102	2653
함께1	/a/	957	1338	3244	必要한3	/a/	810	1647	2822	하였다3	/a/	708	1297	2616
家族1	/a/	806	1394	3023	確定日字4	/a/	626	1599	2887	黨員들1	/a/	653	1108	2493
갔다2	/a/	896	1300	3185	받을수1	/a/	701	1373	2792	하고1	/a/	661	1250	2335
外할아버지2	/a/	877	1370	2601	이밖에2	/a/	788	1401	2535	偉大한3	/a/	629	1199	2482
外할아버지3	/a/	896	1434	3101	不動産3	/a/	818	1515	3002	歷史的2	/a/	593	1232	2477
外할머니2	/a/	906	1477	3047	方案2	/a/	953	1617	2847	黨의1	/a/	680	960	2735
		820	1442		方案2		798	1776	2780			649	1279	2474
하시고1	/a/			3183		/a/				하고1	/a/			
事故1	/a/	798	1366	3271	다음1	/a/	856	1541	2861	黨의1	/a/	637	941	2503
為하여2	/a/	839	1697	3084	잡혀1	/a/	803	1312	2540	千萬2	/a/	716	1227	2467
					받던1	/a/	667	1661	2685	反黨1	/a/	683	960	2794
갔어요1	/a/	878	1626	2788	特戰司3	/a/	764	1590	2921	反黨2	/a/	714	1268	2573
地下鐵2	/a/	812	1381	1810	다쳤습니다1	/a/	834	1958	2742	張成澤1	/a/	642	886	2557
타고1	/a/	773	986	1418	만	/a/	791	1620	2829	反黨1	/a/	654	1089	2723
타고1	/a/	844	1095	1412	하기1	/a/	700	1624	2425	反黨2	/a/	708	1370	2591
				1412	0[7]1	i di	700	1024				700	13/0	
				1000	m!	101	704	1750	2650	7E / 1 √22 1		624	1010	
大學	/a/	735	1164	1680	만	/a/	701	1758	2658	張成澤1	/a/	634	1046	2507
大學 까지1	/a/ /a/	735 700	1164 1325	1630	事故1	/a/	862	1628	2672	反黨1	/a/ /a/	693	923	2661
大學 까지1 當身1	/a/	735	1164		事故1 대단히2					反黨1 反黨2	/a/			
大學 까지1	/a/ /a/	735 700	1164 1325	1630	事故1	/a/	862	1628	2672	反黨1	/a/ /a/	693	923	2661
大學 까지1 當身1	/a/ /a/ /a/	735 700 935	1164 1325 1788	1630 3440	事故1 대단히2	/a/ /a/	862 685	1628 1881	2672 2793	反黨1 反黨2	lal lal lal	693 734	923 1222	2661 2561
大學 까지1 當身1 家族1 싸운	/a/ /a/ /a/ /a/	735 700 935 848	1164 1325 1788 1143	1630 3440 1845 1722	事故1 대단히2 危險한3 하게1	/a/ /a/ /a/ /a/	862 685 725 850	1628 1881 1601 1636	2672 2793 2993 2858	反黨1 反黨2 하나2 思想1	/a/ /a/ /a/ /a/ /a/	693 734 686 677	923 1222 1364 961	2661 2561 2456 2698
大學 까지1 當身1 家族1	lal lal lal lal lal	735 700 935 848 738	1164 1325 1788 1143 1417	1630 3440 1845	事故1 대단히2 危險한3 하게1 한게1	lal lal lal lal lal	862 685 725 850 765	1628 1881 1601 1636 1649	2672 2793 2993 2858 2692	反黨1 反黨2 お나2 思想1 思想2	/a/ /a/ /a/ /a/ /a/ /a/	693 734 686 677 652	923 1222 1364 961 1268	2661 2561 2456 2698 2513
大學 까지1 當身1 家族1 싸운 사람2	lal lal lal lal lal	735 700 935 848 738 801	1164 1325 1788 1143 1417 1050	1630 3440 1845 1722 1722	事故1 대단히2 危險한3 하게1 한게1 하는1	lal lal lal lal lal	862 685 725 850 765 731	1628 1881 1601 1636 1649 1732	2672 2793 2993 2858 2692 2817	反黨1 反黨2 하나2 思想1 思想2 하나1	lal lal lal lal lal lal	693 734 686 677 652 713	923 1222 1364 961 1268 1280	2661 2561 2456 2698 2513 2448
大學 까지1 當身1 家族1 싸운 사람2 Word	/a/ /a/ /a/ /a/ /a/ /a/	735 700 935 848 738 801	1164 1325 1788 1143 1417 1050	1630 3440 1845 1722 1722	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1	lal lal lal lal lal lal	862 685 725 850 765 731 822	1628 1881 1601 1636 1649 1732 1673	2672 2793 2993 2858 2692 2817 2714	反黨1 反黨2 하나2 思想1 思想2 하나1 하나2	lal lal lal lal lal lal	693 734 686 677 652 713 669	923 1222 1364 961 1268 1280 1399	2661 2561 2456 2698 2513 2448 2498
大學 까지1 當身1 家族1 싸운 사람2 Word 집에서3	/a/ /a/ /a/ /a/ /a/ Vowel /n/	735 700 935 848 738 801 F1 F2	1164 1325 1788 1143 1417 1050 F3	1630 3440 1845 1722 1722	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1 습니다3	lal lal lal lal lal lal lal	862 685 725 850 765 731 822 809	1628 1881 1601 1636 1649 1732 1673 1756	2672 2793 2993 2858 2692 2817 2714 2718	反黨1 反黨2 하나2 思想1 思地1 하나1 하나2 黨	lal lal lal lal lal lal lal	693 734 686 677 652 713 669 668	923 1222 1364 961 1268 1280 1399 1241	2661 2561 2456 2698 2513 2448 2498 2551
大學 까지1 當身 第 第 第 第 管	/a/ /a/ /a/ /a/ /a/ Vowel ///	735 700 935 848 738 801 F1 F2 809 866	1164 1325 1788 1143 1417 1050 F3 1202 1323	1630 3440 1845 1722 1722 2831 3576	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1 습니다3 防彈1	lal lal lal lal lal lal lal	862 685 725 850 765 731 822 809 871	1628 1881 1601 1636 1649 1732 1673 1756 1467	2672 2793 2993 2858 2692 2817 2714 2718 3225	反黨1 反黨2 하나2 思想1 思想2 하나1 하나1 動나2 黨 歷史的2	lal	693 734 686 677 652 713 669 668 649	923 1222 1364 961 1268 1280 1399 1241 1247	2661 2561 2456 2698 2513 2448 2498 2551 2661
大學 까지1 當身1 家 k 운 사 計2 Word 집에서3 開天節2 開天節3	/a/ /a/ /a/ /a/ /a/ Vowel /n/	735 700 935 848 738 801 F1 F2 809 866 822	1164 1325 1788 1143 1417 1050 F3 1202 1323 1385	1630 3440 1845 1722 1722	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1 습니다3	lal lal lal lal lal lal lal	862 685 725 850 765 731 822 809	1628 1881 1601 1636 1649 1732 1673 1756	2672 2793 2993 2858 2692 2817 2714 2718	反黨1 反黨2 하나2 思想1 思地1 하나1 하나2 黨	lal lal lal lal lal lal lal	693 734 686 677 652 713 669 668	923 1222 1364 961 1268 1280 1399 1241	2661 2561 2456 2698 2513 2448 2498 2551
大學 까지1 當身 第 第 第 第 管	/a/ /a/ /a/ /a/ /a/ Vowel ///	735 700 935 848 738 801 F1 F2 809 866	1164 1325 1788 1143 1417 1050 F3 1202 1323	1630 3440 1845 1722 1722 2831 3576	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1 습니다3 防彈1	lal lal lal lal lal lal lal	862 685 725 850 765 731 822 809 871	1628 1881 1601 1636 1649 1732 1673 1756 1467	2672 2793 2993 2858 2692 2817 2714 2718 3225	反黨1 反黨2 하나2 思想1 思想2 하나1 하나1 動나2 黨 歷史的2	lal	693 734 686 677 652 713 669 668 649	923 1222 1364 961 1268 1280 1399 1241 1247	2661 2561 2456 2698 2513 2448 2498 2551 2661
大學 까지1 當身1 家 k 운 사 計2 Word 집에서3 開天節2 開天節3	/a/ /a/ /a/ /a/ /a/ Vowel ///	735 700 935 848 738 801 F1 F2 809 866 822	1164 1325 1788 1143 1417 1050 F3 1202 1323 1385	1630 3440 1845 1722 1722 2831 3576 3158	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1 습니다3 防彈1	lal lal lal lal lal lal lal	862 685 725 850 765 731 822 809 871	1628 1881 1601 1636 1649 1732 1673 1756 1467 1650	2672 2793 2993 2858 2692 2817 2714 2718 3225 2701	反黨1 反黨2 하나2 思想1 思想2 하나1 하나1 動나2 黨 歷史的2	lal	693 734 686 677 652 713 669 668 649	923 1222 1364 961 1268 1280 1399 1241 1247 1297	2661 2561 2456 2698 2513 2448 2498 2551 2661 2367
大學 까지1 當身1 家族1 싸운 사람2 Word 집에서3 開天節3 머리1	/a/ /a/ /a/ /a/ /a/ Vowel /// ///	735 700 935 848 738 801 F1 F2 809 866 822 518	1164 1325 1788 1143 1417 1050 F3 1202 1323 1385 890	1630 3440 1845 1722 1722 2831 3576 3158 3168	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1 습니다3 防彈2	lal	862 685 725 850 765 731 822 809 871 813	1628 1881 1601 1636 1649 1732 1673 1756 1467 1650	2672 2793 2993 2858 2692 2817 2714 2718 3225 2701	反黨1 反黨2 하나2 思想1 思想2 하나1 하나2 黨 歷史的2 나갈수1	lal	693 734 686 677 652 713 669 668 649 709	923 1222 1364 961 1268 1280 1399 1241 1247 1297	2661 2561 2456 2698 2513 2448 2498 2551 2661 2367
大學 까지1 當身1 家族1 싸운 사람2 Word 집에서3 開天節2 開天節3 머리1 데이터3	/a/ /a/ /a/ /a/ /a/ /a/ /a/ Vowel // // // // // // //	735 700 935 848 738 801 F1 F2 809 866 822 518 719	1164 1325 1788 1143 1417 1050 F3 1202 1323 1385 890 1017	1630 3440 1845 1722 1722 2831 3576 3158 3168 2634	事故1 대단히2 危險한3 하게1 한게1 하는1 만든1 습니다3 防彈1 防彈2	lal	862 685 725 850 765 731 822 809 871 813	1628 1881 1601 1636 1649 1732 1673 1756 1467 1650	2672 2793 2993 2858 2692 2817 2714 2718 3225 2701	反黨1 反黨2 하나2 思想1 思サ나1 하나1 하나2 黨 歷史的2 나갈수1	a	693 734 686 677 652 713 669 668 649 709	923 1222 1364 961 1268 1280 1399 1241 1247 1297	2661 2561 2456 2698 2513 2448 2498 2551 2661 2367
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에서2		801	1408	2868	設置1		655	1711	2657	것이1		496		2515
	///					///					///		773	
戰爭1	///	658	1278	1677	되어서3	///	665	1092	2826	全黨1	///	467	1119	2392
없어1	/ / /	609	949	2597	어려운1	///	503	1339	2716	全軍1	///	473	977	2421
없어2	/^/	657	1411	3214	에서2	/^/	704	1122	2818	全民1	/^/	537	1173	2434
할머니2	/^/	599	1110	1690	健物1	///	692	1092	3009	金正恩2	/^/	514	962	2282
어떻게1	///	674	1293	2182	에서2	///	709	1158	2934	强盛2	///	499	1078	2316
너무1	/^/	604	1111	1529	- 111-					324 ma				
-11.	,,,			.020	Word	Vowel	F1 F2	F	3	Word	Vowel	F1 F2	2 F	3
Word	Vowel	F1 F2	. F3		大統領2	/0/	627	1301	2803	朝鮮1	/0/	436	744	2839
繼續하다2	/o/	469	928	2318	또	/0/	608	916	1859	勞動黨1	/o/	528	993	2579
黃소2	/o/	405	995	1981	勞動1	/o/	453	1136	1848	勞動黨2	/o/	525	886	2549
小食1	/o/	463	1052	2463	勞動2	/o/	597	918	2130	朝鮮1	/o/	459	794	2727
테이블褓4	/o/	445	924	2499	해서2	/o/	463	1137	1598	勞動黨1	/o/	541	1003	2453
노르웨이語1	/o/	417	907	2841	으로2	/o/	542	1107	2634	勞動黨2	/o/	562	788	2586
오세요1	/o/	399	882	2354	確定日字도5	/o/	512	915	2840	朝鮮1	/o/	469	775	2786
왼쪽2	/o/	494	1031	2864	도	/o/	510	930	2966	勞動黨1	/o/	571	1047	2500
오른쪽1	/0/	385	996	2402	ㅡ 通해1	/0/	465	993	2912	勞動黨2	/0/	559	836	2622
오른쪽3	/o/	485	1368	3097	不動産2	/0/	616	1183	2798	同志1	/0/	476	862	2465
光復節2	/0/	439	1006		業務도3	/0/	509	928	2961		/0/	478	733	2542
儿及即2	/0/	439	1000	2523						모든1				
A					繼續2	/o/	428	1406	1654	으로2	/0/	486	869	2596
父母님2	/o/	711	1324	2473	消息1	/o/	480	1471	2897	하고2	/o/	435	743	2546
그로네2	/o/	582	1088	1416	捕虜로1	/o/	700	1113	2894	同志1	/o/	472	893	2457
하시고3	/o/	404	800	2172	捕虜弖2	/o/	701	1110	2937	하고2	/o/	459	765	2553
或是1	/o/	381	951	2462	捕虜로3	/o/	675	1093	2892	害毒性	/o/	455	841	2515
모를1	/o/	467	845	2086	숨지고3	/o/	496	843	1677	反動2	/o/	518	835	2510
事故2	/o/	527	1203	1550	事故2	/o/	484	877	2817	領導2	/o/	547	1110	2486
保險1	/o/	407	786	1734	導入1	/o/	437	1298	2585	領導2	/o/	462	1110	2469
空港1	/0/	572	630	1528	보고1	/0/	415	770	2762	同志1	/0/	496	925	2456
노릇1	/0/	420	1167	1837	보고2	/0/	493	731	2895	하고2	/0/	471	902	2669
傳統2	/o/	477	1194	1992	放送2	/0/	633	1272	2745	하고2	/0/	483	874	2634
					오늘1	/o/	395	810	2757	또	/0/	520	797	2552
오늘1	/o/	460	992	2398	放送2	/o/	584	1267	2838	同志1	/o/	474	939	2531
타고2	/o/	492	977	1971	아직도3	/o/	611	1525	2838	라고2	/o/	461	1107	2291
弘大1	/o/	346	1198	2418	放送2	/o/	629	1087	2377	오늘1	/o/	457	751	2508
타고2	/o/	512	836	2120	있다고3	/o/	474	798	2817	同志1	/o/	490	892	2491
家族2	/o/	481	977	1810	無料로3	/o/	606	1233	2786	으로2	/o/	588	974	2570
日本2	/o/	484	990	2219	좋아1	/o/	528	1096	2772	온社會1	/o/	384	676	2635
				2177	保税1	/0/			2084		/0/	460	017	2106
으로2	/o/	451	1258	2177	保税1	/o/	527	906	2984	하고2	/o/	460	917	2196
으로2 統一1	/o/ /o/	451 423	1258 901	2118			527	906		하고2				
으로 2 統一1 고	/o/ /o/ /o/	451 423 524	1258 901 1029	2118 2383	Word	Vowel	527 F1 F2	906 F :	3	하고2 Word	Vowel	F1 F2	2 F	3
으로2 統一1	/o/ /o/	451 423	1258 901	2118	Word 九月1	Vowel /u/	527 F1 F2 457	906 F: 811	3 2113	하고2 Word 우리1	Vowel /u/	F1 F 2	2 F	2270
으로2 統一1 고 統一1	/o/ /o/ /o/	451 423 524 360	1258 901 1029 793	2118 2383 2221	Word 九月1 不便1	Vowel /u/ /u/	527 F1 F2 457 518	906 F: 811 1209	2113 2581	하고2 Word 우리1 人民軍3	Vowel /u/ /u/	F1 F 2 413 439	2 F 1196 1128	2270 2465
으로2 統一1 고 統一1	/o/ /o/ /o/ /o/ Vowel	451 423 524 360 F1 F2	1258 901 1029 793	2118 2383 2221	Word 九月1 不便1 不動産2	Vowel /u/ /u/ /u/	527 F1 F2 457 518 424	906 F: 811 1209 1196	2113 2581 2178	하고2 Word 우리1 人民軍3 主體1	Vowel /u/ /u/ /u/	F1 F2 413 439 431	2 F 1196 1128 1472	2270 2465 2434
으로2 統一1 고 統一1	/o/ /o/ /o/	451 423 524 360	1258 901 1029 793	2118 2383 2221	Word 九月1 不便1	Vowel /u/ /u/	527 F1 F2 457 518	906 F: 811 1209	2113 2581	하고2 Word 우리1 人民軍3	Vowel /u/ /u/	F1 F 2 413 439	2 F 1196 1128	2270 2465
으로2 統一1 고 統一1	/o/ /o/ /o/ /o/ Vowel	451 423 524 360 F1 F2	1258 901 1029 793	2118 2383 2221	Word 九月1 不便1 不動産2	Vowel /u/ /u/ /u/	527 F1 F2 457 518 424	906 F: 811 1209 1196	2113 2581 2178	하고2 Word 우리1 人民軍3 主體1	Vowel /u/ /u/ /u/	F1 F2 413 439 431	2 F 1196 1128 1472	2270 2465 2434
으로2 統一1 고 統一1 Word 瞬間1	/o/ /o/ /o/ /o/ Vowel /u/	451 423 524 360 F1 F2 415	1258 901 1029 793 2 F3	2118 2383 2221 2992	Word 九月1 不便1 不動産2 業務2	Vowel /u/ /u/ /u/ /u/	527 F1 F2 457 518 424 528	906 811 1209 1196 1178	2113 2581 2178 2438	하고2 Word 우리1 人民軍3 主體1 重大1	Vowel /u/ /u/ /u/ /u/	F1 F2 413 439 431 415	2 F 1196 1128 1472 866	2270 2465 2434 2418
으로2 統一1 고 統一1 Word 瞬間1 民主主義2	/o/ /o/ /o/ /o/ Vowel /u/ /u/	451 423 524 360 F1 F2 415 437	1258 901 1029 793 2 F3 1370 1373	2118 2383 2221 2992 3227	Word 九月1 不便1 不動産2 業務2 特殊2 訓練1	Vowel /u/ /u/ /u/ /u/ /u/	527 F1 F2 457 518 424 528 473	906 811 1209 1196 1178 1404	2113 2581 2178 2438 2773	하고2 Word 우리1 人民軍3 主體1 重大1 主體1	Vowel /u/ /u/ /u/ /u/	F1 F2 413 439 431 415 423	2 F 1196 1128 1472 866 1377	2270 2465 2434 2418 2264
으로2 統一1 고 統一1 Word 瞬間1 民主主義2 民家1	/o/ /o/ /o/ /o/ Vowel /u/ /u/ /u/ /u/	451 423 524 360 F1 F2 415 437 380 414	1258 901 1029 793 2 F3 1370 1373 1424 868	2118 2383 2221 2992 3227 2949 2341	Word 九月1 不便1 不動産2 業特殊2 訓練1 〒名 1	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	527 F1 F2 457 518 424 528 473 403 422	906 811 1209 1196 1178 1404 1400 974	2113 2581 2178 2438 2773 2558 3790	하고2 Word 우리1 人民軍3 主體1 重大1 主體1 空軍2 國家1	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	F1 F2 413 439 431 415 423 504 504	2 F 1196 1128 1472 866 1377 1274 738	2270 2465 2434 2418 2264 2447 2238
으로2 統一1 고 統一1 Word 瞬間1 民主主義3 國家1 牛乳1	/o/ /o/ /o/ Vowel /u/ /u/ /u/ /u/	451 423 524 360 F1 F2 415 437 380 414 428	1258 901 1029 793 2 F3 1370 1373 1424 868 911	2118 2383 2221 2992 3227 2949 2341 2108	Word 九月1 九月1 不動産2 業務2 特殊2 訓練1 号名1 会지고1	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	527 F1 F2 457 518 424 528 473 403 422 566	906 811 1209 1196 1178 1404 1400 974 1317	2113 2581 2178 2438 2773 2558 3790 2594	計立2Word우리1人民軍3主體1重大1主體1全軍2國家が1反國家的2	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/	F1 F2 413 439 431 415 423 504 504 417	1196 1128 1472 866 1377 1274 738 755	2270 2465 2434 2418 2264 2447 2238 2263
으로2 統一1 고 統一1 Word 瞬間1 民主主義2 民主主義3 國家1 +물	/o/ /o/ /o/ Vowel /u/ /u/ /u/ /u/ /u/ /u/	451 423 524 360 F1 F2 415 437 380 414 428 390	1258 901 1029 793 2 F3 1370 1373 1424 868 911 1205	2118 2383 2221 2992 3227 2949 2341 2108 2635	Word 九月月1 不平襲1 来務32 特殊2 訓練1 年名1 고1 訓練1	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	527 F1 F2 457 518 424 528 473 403 422 566 461	906 F3 811 1209 1196 1178 1404 1400 974 1317 1965	2113 2581 2178 2438 2773 2558 3790 2594 2624	計立2Word우리1人民軍3主體1重大1主體1全軍2國家1反國家1國家1	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	F1 F2 413 439 431 415 423 504 504 417 455	2 F 1196 1128 1472 866 1377 1274 738 755 946	2270 2465 2434 2418 2264 2447 2238 2263 2308
으로2 統一1 고統一1 Word 瞬間1 民主主義3 國家1 牛乳1 号 운1	/o/ /o/ /o/ Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/	451 423 524 360 F1 F2 415 437 380 414 428 390 383	1258 901 1029 793 2 F3 1370 1373 1424 868 911 1205 1062	2118 2383 2221 2992 3227 2949 2341 2108 2635 2731	Word 九月月1 不不業務2 特別2 特別4 年名 1 第2 1 第3 1 第3 1 第3 1 1 1 1 1 1 1 1 1 1 1 1	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	527 F1 F2 457 518 424 528 473 403 422 566 461 456	906 811 1209 1196 1178 1404 1400 974 1317 1965 1771	2113 2581 2178 2438 2773 2558 3790 2594 2624 2536	 計立2 Word 우리1 中民軍3 主 世世1 主 重 2 國 家 「	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	F1 F2 413 439 431 415 423 504 504 417 455 415	1196 1128 1472 866 1377 1274 738 755 946 1369	2270 2465 2434 2418 2264 2447 2238 2263 2308 2230
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으로2 統一1 고統 一1 Word 瞬間主主義3 瞬乳 목皇家1 목으로 등으로 등으로 등으로 등으로 등으로 등으로 등으로 등으로 등으로 등		451 423 524 360 F1 F2 415 437 380 414 428 390 383 507 434	1258 901 1029 793 2 F3 1370 1373 1424 868 911 1205 1062 1085 1154	2118 2383 2221 2992 3227 2949 2341 2108 2635 2731 2819 3466	Word 月1 17 17 17 18 18 18 18 18 18 18 18 18 18	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	527 F1 F2 457 518 424 528 473 403 422 566 461 456 603 406	906 811 1209 1196 1178 1404 1400 974 1317 1965 1771 1586 878	2113 2581 2178 2438 2773 2558 3790 2594 2624 2536 2364 2446	하고2 Word 우리1 수民電3 主電大1 主電大1 主電電2 國國家1 反國家1 将軍軍1 反國家1 将軍1 規関第 将軍1 長間第 大日 大日 大日 大日 大日 大日 大日 大日 大日 大日	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	F1 F2 413 439 431 415 423 504 504 417 455 415 538 418	2 F 1196 1128 1472 866 1377 1274 738 755 946 1369 868 839	2270 2465 2434 2418 2264 2447 2238 2263 2308 2230 2378 2302
으로2 統一1 고統 — 1 Word 瞬間主主義3 瞬乳1 문主家乳 牛물 추운2 원筋肉2		451 423 524 360 F1 F2 415 437 380 414 428 390 383 507 434 377	1258 901 1029 793 2 F3 1370 1373 1424 868 911 1205 1062 1085 1154 1257	2118 2383 2221 2992 3227 2949 2341 2108 2635 2731 2819 3466 2526	Word 1 1 1 2 2 特別 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	527 F1 F2 457 518 424 528 473 403 422 566 461 456 603 406 510	906 811 1209 1196 1178 1404 1400 974 1317 1965 1771 1586 878 901	2113 2581 2178 2438 2773 2558 3790 2594 2624 2536 2364 2446 2274	하고2 Word 우리1 人民體1 主重大1 主重家1 主軍家家の 國家の第一 東民家の 大民電子 大民電子 大民電子 大日 大日 大日 大日 大日 大日 大日 大日 大日 大日	Vowel /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ /u	F1 F2 413 439 431 415 423 504 504 417 455 415 538 418 555	1196 1128 1472 866 1377 1274 738 755 946 1369 868 839 741	2270 2465 2434 2418 2264 2447 2238 2263 2308 2230 2378 2302 2449
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金色1	/w/	416	1953	3070	인터넷을4	/w/	552	1676	2863	人民들은2	/ɯ/	497	1486	2437
筋肉1	/w/	413	1993	2866	訓練을3	/w/	531	1171	1879	金正恩3	/ɯ/	488	1275	2455
하늘2	/w/	553	1569	3390	進行은3	/w/	543	1743	2790	모든2	/w/	441	1076	2300
		450						1858	2840	 으로1				
테이블褓3	/w/		1384	2781	事故는3	/w/	539				/w/	485	970	2365
노르웨이語2	/w/	453	1330	2869	訓練을3	/w/	552	1813	2911	그런데1	/ɯ/	471	1386	2199
가득하다2	/w/	418	1777	3225	禍根2	/w/	535	1659	2892	에서는3	/ɯ/	540	1704	2392
오른쪽2	/w/	373	1664	2903	特殊1	/w/	414	1694	2907	큰	/ɯ/	513	1242	2413
먹으면서2	/w/	423	1059	3017	하는2	/w/	548	1794	2855	께서는3	/ɯ/	496	1427	2432
릭드런지2	ruir	423	1039	3017										
					訓練을3	/w/	613	1836	3029	金正恩3	/w/	543	1186	2385
家族은3	/w/	494	1283	3214	만든건데2	/w/	534	1896	2772	金正恩3	/ɯ/	527	1029	2456
여름2	/w/	496	1377	3171	들	/w/	640	1935	2866	있는2	/w/	546	1358	2426
으로1	/w/	517	1466	3263	오늘2	/w/	549	1908	2698	오늘2	/w/	457	1582	2382
를	/w/	443	1926	3208	그런데1	/w/	482	1490	2608	同志를	/w/	453	1848	2510
銀行1	/w/	416	1231	3340	오늘2	/w/	474	1799	2727	一黨은3	/w/	536	1643	2428
들러1	/w/	397	1409	2193	오늘은3	/w/	570	1734	2733	張成澤은4	/w/	572	1570	2413
그로네1	/w/	496	1366	3225	天障을3	/w/	620	1805	2643	앞에서는4	/w/	444	1573	2457
	/w/	445	1796	3124	EI 1 2	/ɯ/	588	1938	2700	張成澤은4	/ɯ/	573	1628	2429
그래서1					되는2									
乘務員1	/w/	412	1425	3141	苦痛을3	/w/	528	1615	2578	張成澤은4	/ɯ/	507	1505	2429
飲食1	/w/	405	1084	1960	學生들3	/w/	558	1900	2742	行為는3	/ɯ/	501	1731	2524
W/ DE I	ruir	400	1004	1900										
					錦湖亞細亞나1	/w/	508	1301	2558	張成澤은4	/w/	575	1677	2473
오늘2	/w/	553	1688	3344	會長側3	/w/	493	1780	2535	만들었다2	/w/	463	1272	2393
오늘은3	/w/	587	1786	3279	으로1	/w/	459	1460	2405	張成澤은4	/w/	574	1571	2413
에서는3	/w/	705	1676	3546	葛藤2	/w/	473	2057	2641	張成澤은4	/w/	581	1504	2420
으로1	/w/	436	1324	3242	을	/w/	629	1830	2721	다른2	/w/	580	1405	2306
					만큼2	/w/	565	1641	2742	勝利1	/w/	402	990	2481
Canula														
Seoul2					일을2	/w/	445	1920	2606	勝利1	/w/	440	1168	2372
Word	Vowel	F1 F2	2 F3	3										
移民가다1	/i/	322	2196	2988	Pyongyang1					Pyongyang4				
					, ,, ,									
移民가다2	/i/	359	2180	2970	Word	Vowel	F1 F2	2 F	3	Word	Vowel	F1 F2	2 F:	3
집에서1	/i/	359	1981	2770	親愛하는1	/i/	343	2138	2577	우리2	/i/	370	2176	2744
疑心2	/i/	407	2152	2829	人民軍2	/i/	376	2107	2567	人民1	/i/	352	2343	3505
民主主義1	/i/	342	2031	2851	人民들1	/i/	286	2133	2916	人民2	/i/	362	2461	3177
民主主義4	/i/	354	1734	2504	人民들2	/i/	365	2068	2623	이딸리아1	/i/	334	2385	3379
小食2	/i/	350	2091	2772	우리는2	/i/	290	2102	2558	이딸리아1	/i/	337	2544	3686
일	/i/	343	2334	2968	人民軍2	/i/	257	2158	2600	人民1	/i/	418	2325	2960
발꿈치3	/i/	325	1867	2740	人民들이2	/i/	271	2267	2673	人民2	/i/	391	2291	3134
						1:1					6.7			
					人民들이4	/i/	336	2046	2625	民主主義1	/i/	344	2243	3224
外할아버지5	/i/	411	1892	2736	民族1	/i/	249	2365	3052	人民1	/i/	478	2417	3335
外할머니4	/i/	470	1052		金日成同志1	/i/	271			二十日1	6.7		2400	
게일미니4		479	1953	2783	並口以門心!	/ 1/	271	1862	2427	I H I	/i/	361	2409	3241
우리2	/i/	347	1985	2849	金日成同志2	/i/	245	1788	2447	二十目1	/i/	328	2443	3430
0 番1	/i/	332	1904	2879	金日成同志5	/i/	330	1960	2330	九日2	/i/	307	2304	3316
o 番1 旅行o 3	/i/ /i/	332 451	1904 2187	2879 2862	金日成同志5 金正日同志1	/i/ /i/	330 330	1960 2314	2330 3419	九日2 期間1	/i/ /i/	307 324	2304 2378	3316 3197
o 番1 旅行 o 3 飛行1	/i/ /i/ /i/	332 451 429	1904 2187 2120	2879 2862 2878	金日成同志5 金正日同志1 金正日同志3	/i/ /i/ /i/	330 330 321	1960 2314 1910	2330 3419 2413	九日2 期間 1 金日成 2	/i/ /i/ /i/	307 324 490	2304 2378 2188	3316 3197 2928
o 番1 旅行o 3	/i/ /i/	332 451	1904 2187	2879 2862	金日成同志5 金正日同志1	/i/ /i/	330 330	1960 2314	2330 3419	九日2 期間1	/i/ /i/	307 324	2304 2378	3316 3197
o 番1 旅行 o 3 飛行1 乘務員o 4	/i/ /i/ /i/ /i/	332 451 429 544	1904 2187 2120 1990	2879 2862 2878 3001	金日成同志5 金正日同志1 金正日同志3 드립니다2	/i/ /i/ /i/ /i/	330 330 321 329	1960 2314 1910 2099	2330 3419 2413 2744	九日2 期間 1 金日成 2 同志 2	/i/ /i/ /i/ /i/	307 324 490 426	2304 2378 2188 2331	3316 3197 2928 2889
이番1 旅行이3 飛行1 乘務員이4 우리2	/i/ /i/ /i/ /i/	332 451 429 544 379	1904 2187 2120 1990 1854	2879 2862 2878 3001 2731	金日成同志5 金正日同志1 金正日同志3 드립니다2 人民軍1	/i/ /i/ /i/ /i/	330 330 321 329 253	1960 2314 1910 2099 2384	2330 3419 2413 2744 3148	九日2 期間 1 金日成 2 同志 2 同志 2	/i/ /i/ /i/ /i/	307 324 490 426 462	2304 2378 2188 2331 2311	3316 3197 2928 2889 3354
o 番1 旅行 o 3 飛行1 乘務員o 4	/i/ /i/ /i/ /i/	332 451 429 544	1904 2187 2120 1990	2879 2862 2878 3001	金日成同志5 金正日同志1 金正日同志3 드립니다2	/i/ /i/ /i/ /i/	330 330 321 329	1960 2314 1910 2099	2330 3419 2413 2744	九日2 期間 1 金日成 2 同志 2	/i/ /i/ /i/ /i/	307 324 490 426	2304 2378 2188 2331	3316 3197 2928 2889
이 番1 旅行 이3 飛行 1 乘務員이4 우리2 없이2	/i/ /i/ /i/ /i/ /i/	332 451 429 544 379 387	1904 2187 2120 1990 1854 1759	2879 2862 2878 3001 2731 2786	金日成同志5 金正日同志1 金正日同志3 드립니다2 人民軍1 人民軍2	/i/ /i/ /i/ /i/ /i/	330 330 321 329 253 243	1960 2314 1910 2099 2384 2357	2330 3419 2413 2744 3148 3086	九日2 期間 1 金日成 2 同志 2 同志 2 人民 1	/i/ /i/ /i/ /i/ /i/	307 324 490 426 462 365	2304 2378 2188 2331 2311 2360	3316 3197 2928 2889 3354 3004
이番1 旅行이3 飛行1 乘務員이4 우리2 없이2 미트볼1	/i/ /i/ /i/ /i/ /i/ /i/	332 451 429 544 379 387 318	1904 2187 2120 1990 1854 1759 1949	2879 2862 2878 3001 2731 2786 2824	金日成同志5 金正日同志1 金正日同志3 드립니다2 人民軍1 人民軍2 人民 5	/i/ /i/ /i/ /i/ /i/ /i/	330 330 321 329 253 243 266	1960 2314 1910 2099 2384 2357 2501	2330 3419 2413 2744 3148 3086 3267	九日2 期間1 金日成2 同志2 同志2 人民1 人民2	/i/ /i/ /i/ /i/ /i/ /i/	307 324 490 426 462 365 367	2304 2378 2188 2331 2311 2360 2379	3316 3197 2928 2889 3354 3004 3231
이 番1 旅行 이3 飛行 1 乘務員이4 우리2 없이2	/i/ /i/ /i/ /i/ /i/	332 451 429 544 379 387	1904 2187 2120 1990 1854 1759	2879 2862 2878 3001 2731 2786	金日成同志5 金正日同志1 金正日同志3 드립니다2 人民軍1 人民軍2 人民[章1 人民[章1	/i/ /i/ /i/ /i/ /i/	330 330 321 329 253 243 266 250	1960 2314 1910 2099 2384 2357	2330 3419 2413 2744 3148 3086	九日2 期間1 金日志2 同志2 人人民1 人民2 金日成2	/i/ /i/ /i/ /i/ /i/	307 324 490 426 462 365	2304 2378 2188 2331 2311 2360	3316 3197 2928 2889 3354 3004 3231 2964
이番1 旅行이3 飛行1 乘務員이4 우리2 없이2 미트볼1	/i/ /i/ /i/ /i/ /i/ /i/	332 451 429 544 379 387 318	1904 2187 2120 1990 1854 1759 1949	2879 2862 2878 3001 2731 2786 2824	金日成同志5 金正日同志1 金正日同志3 드립니다2 人民軍1 人民軍2 人民[章1 人民[章1	Fil Fil Fil Fil Fil Fil	330 330 321 329 253 243 266 250	1960 2314 1910 2099 2384 2357 2501 2212	2330 3419 2413 2744 3148 3086 3267 2722	九日2 期間1 金日志2 同志2 人人民1 人民2 金日成2	/i/ /i/ /i/ /i/ /i/ /i/	307 324 490 426 462 365 367 436	2304 2378 2188 2331 2311 2360 2379 2245	3316 3197 2928 2889 3354 3004 3231 2964
이 番1 旅行이3 飛行1 乗務員이4 우리2 없이2 미트볼1 食事1	fil fil fil fil fil fil fil	332 451 429 544 379 387 318 391	1904 2187 2120 1990 1854 1759 1949 1813	2879 2862 2878 3001 2731 2786 2824 2724	金日成同志5 金正日同志1 金正日同志3 드립니다2 人民軍1 人民軍1 人民医量2 幸福 013	fil fil fil fil fil fil fil	330 330 321 329 253 243 266 250 285	1960 2314 1910 2099 2384 2357 2501 2212 2282	2330 3419 2413 2744 3148 3086 3267 2722 2888	九日2 期間1 金田成2 同志2 同志2 人民2 人民2 金田成2 民主主義1	TAV	307 324 490 426 462 365 367 436 354	2304 2378 2188 2331 2311 2360 2379 2245 2237	3316 3197 2928 2889 3354 3004 3231 2964 2955
이番1 旅行이3 飛行1 乗務預員이4 우리2 없이2 미트볼1 食事1 地下鐵1	fil fil fil fil fil fil fil	332 451 429 544 379 387 318 391	1904 2187 2120 1990 1854 1759 1949 1813	2879 2862 2878 3001 2731 2786 2824 2724	金日成同志5 金正日同志3 三립日日志2 人民軍1 人民联重2 人民民들2 幸福013 真心1	Fil Fil Fil Fil Fil Fil Fil Fil	330 330 321 329 253 243 266 250 285 348	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835	九日2 期間1 金田成2 同志2 同太民1 人民2 金日走2 民人民2	FAI FAI FAI FAI FAI FAI FAI FAI	307 324 490 426 462 365 367 436 354 455	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156
이 番1 旅行이3 飛行1 乗務員이4 우리2 없이2 미트볼1 食事1	fil fil fil fil fil fil fil	332 451 429 544 379 387 318 391	1904 2187 2120 1990 1854 1759 1949 1813	2879 2862 2878 3001 2731 2786 2824 2724	金日成同志5 金正日同志1 金正日同志3 드립니다2 人民軍1 人民軍1 人民医量2 幸福 013	fil fil fil fil fil fil fil	330 330 321 329 253 243 266 250 285	1960 2314 1910 2099 2384 2357 2501 2212 2282	2330 3419 2413 2744 3148 3086 3267 2722 2888	九日2 期間1 金田成2 同志2 同志2 人民2 人民2 金田成2 民主主義1	TAV	307 324 490 426 462 365 367 436 354	2304 2378 2188 2331 2311 2360 2379 2245 2237	3316 3197 2928 2889 3354 3004 3231 2964 2955
이番1 旅行이3 飛行1 乘務員이4 우리2 없이2 미트볼1 食事1 地下鐵1 아니오2	FM F	332 451 429 544 379 387 318 391 428 422	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903	金日成同志5 金正日同志3 三日日同志3 三日日之 人民軍1 人民民軍2 人民民들2 幸福013 真心1 真心2	Fil Fil Fil Fil Fil Fil Fil Fil	330 330 321 329 253 243 266 250 285 348 296	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736	九日2 期間1 金田成2 同志2 同志2 人民1 人民2 金田 主主義 1 人二十五日1	KV KV KV KV KV KV KV KV	307 324 490 426 462 365 367 436 354 455 290	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627
이番1 旅行이3 飛行1 乘務員이4 우리2 없이2 미트事1 地下一	FM F	332 451 429 544 379 387 318 391 428 422 450	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355	金日成同志5 金正正日同志3 三日日同志3 三日日日 日日日日 日日日日 日日日日 日日日日 日日日日 日日日日 日日	fil	330 330 321 329 253 243 266 250 285 348 296 291	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492	九日2 期間1 金田市成2 同志2 同天民1 人民2 日本主義1 人民2 民民2 五日1 二十五日4	KI KI KI KI KI KI KI KI KI	307 324 490 426 462 365 367 436 354 455 290 367	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357
이番1 旅行이3 飛行1 乘務員이4 우리2 없이2 미트볼1 食事1 地下鐵1 아니오2	FM F	332 451 429 544 379 387 318 391 428 422	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903	金日成同志5 金正日同志3 三日日同志3 三日日之 人民軍1 人民民軍2 人民民들2 幸福013 真心1 真心2	Fil Fil Fil Fil Fil Fil Fil Fil	330 330 321 329 253 243 266 250 285 348 296 291 258	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736	九日2 期間1 金田成2 同志2 同志2 人民1 人民2 金田 主主義 1 人二十五日1	KV KV KV KV KV KV KV KV	307 324 490 426 462 365 367 436 354 455 290	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627
이番1 旅行이3 飛行1 乘務[이4 우리(2 미트事1 地下(鐵1 아니오 이랑1 統一2	FM F	332 451 429 544 379 387 318 391 428 422 450	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671	金日成用に志5 金田正正日間志3 三日日日に2 人民民民軍軍2 人民民民編2 李福01 真心2 ユロコ2 進歩的1	fil	330 330 321 329 253 243 266 250 285 348 296 291	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549	九日2 期間1 成2 同志2 同志民1 人民日2 成2 民日2 民工主義1 人民工五五1 二十五五1 1	KI KI KI KI KI KI KI KI KI	307 324 490 426 462 365 367 436 354 455 290 367	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245
이番1 旅行이3 飛行1 乘行1 乘이4 우리2 없이2 미트事1 地下跋1 아니2됨 가당2 이당1 다당2	FU F	332 451 429 544 379 387 318 391 428 422 450 499 404	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616	金日成日 同志5 金金 金田 正正日 日本	FU F	330 330 321 329 253 243 266 250 285 348 296 291 258 263	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185	九日2 期間1 成2 同志2 同志民1 人民2 民王主 民工五五 日 民二十五五日1 二勝利2 以番1	RV R	307 324 490 426 462 365 367 436 354 455 290 367 476 297	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436
이番1 旅行이3 飛行1 乘務[이4 우리(2 미트事1 地下(鐵1 아니오 이랑1 統一2	FM F	332 451 429 544 379 387 318 391 428 422 450 499	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671	金日成同志5 金正正日日日日 日日日日日 日民民民民民民民民民民民民民民民民民民民民民民民民	FU F	330 330 321 329 253 243 266 250 285 348 296 291 258	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549	九日2 期日1 田田成2 同同大民1 宝 天民1 全 民民2 民民2 天日主至 日上三五 日十十五 日十十五 日十十五 日 日 日 日 日 日 日 日 日 日 日 日	RV R	307 324 490 426 462 365 367 436 354 455 290 367 476	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245
이番1 旅行이3 飛行1 乘行1 乘이4 우리2 없이2 미트事1 地下跋1 아니2됨 가당2 이당1 다당2	FU F	332 451 429 544 379 387 318 391 428 422 450 499 404	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616	金日成同志5 金正正日日日日 日日日日日 日民民民民民民民民民民民民民民民民民民民民民民民民	FU F	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538	九日2 期日1 田田成2 同同大民1 宝 天民1 全 民民2 民民2 天日主至 日上三五 日十十五 日十十五 日十十五 日 日 日 日 日 日 日 日 日 日 日 日	RV R	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123
이番1 旅行이3 飛行1 乘行5員이4 유리2 없이2 미트事1 地下3 바다나오2 이라1 統一2 지만1 統一2		332 451 429 544 379 387 318 391 428 422 450 499 404 541	1904 2187 2120 1990 1854 1759 1849 1813 1828 2063 1950 2253 1789 2244	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362	金日成日 同志5 金田正正日 日本	RV R	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589	九日2 期日1 1日 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RU R	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2411 2159 2269 2402	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137
이番1 旅行이3 飛行1 乘務員이4 우리2 없이2 미트事1 地下一 鐵1 아니오2 이랑1 统一2 지만1 統一2		332 451 429 544 379 387 318 391 428 422 450 499 404 541	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362	金金金金田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	FU F	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498	九 期金 同同人人金 民民 日 1 日 1 日 1 日 1 日 1 日 1 日 2 日 1 日 2 日 2	NU N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449
이番1 旅行이3 飛行1 乘行5員이4 유리2 없이2 미트事1 地下3 바다나오2 이라1 統一2 지만1 統一2		332 451 429 544 379 387 318 391 428 422 450 499 404 541	1904 2187 2120 1990 1854 1759 1849 1813 1828 2063 1950 2253 1789 2244	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362	金日成日 同志5 金田正正日 日本	RV R	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589	九日2 期日1 1日 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RU R	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2411 2159 2269 2402	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137
이番1 旅行이3 飛行1 乘務[이4 우입이2 미트事1 학니모를 1 학니모로 이라는2 지만1 统 -2 Word 집에서2		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F2 545	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 FS	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362	金田成田 田本田 田本田 田本田 田本田 田田 田田 田田 田田 田田 田田 田田 田	RV R	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498 2652	九明金司司人人金民人二二勝四十五十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十	NU N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2402 2402 2177 2279	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293
이番1 旅行이3 飛行所1 乘符所員이4 우리2 없이2 미트볼1 食 下鐵1 아니오2 이랑1 统 지만1 統 그2		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F1 545 458	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595	2879 2862 2878 3001 2731 2736 2824 2724 2373 2903 2355 2671 2616 2362	金金金金田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田	FU F	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498	九 期金 同同人人金 民民 日 1 日 1 日 1 日 1 日 1 日 1 日 2 日 1 日 2 日 2	NU N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449
이番1 旅行이3 飛行1 乘務[이4 우입이2 미트事1 학니모를 1 학니모로 이라는2 지만1 统 -2 Word 집에서2		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F2 545	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 FS	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362	金田成田 田本田 田本田 田本田 田本田 田田 田田 田田 田田 田田 田田 田田 田	RV R	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498 2652	九明金司司人人金民人二二勝四十五十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十十	NU N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2402 2402 2177 2279	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293
이番1 旅行이3 飛行所1 乘行預員이4 우리2 없이2 미트事1 地下以空2 이랑1 -2 지반1 統一2 Word 집비서2 世上1 世上의 海洋1	/\text{IV}	332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F2 545 458 460	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362	金金正正正日本 (日本) 日本 (日	N N N N N N N N N N N N N N N N N N N	330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245	1960 2314 1910 2099 2384 2357 2501 2212 2282 2287 2139 2093 2222 2447 2094 2408 1844 2206 2361	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2538 2589 2498 2652 2787	1 期金同同人人金民人二二勝 1 1 1 1 1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1	AU AU AU AU AU AU AU AU AU AU AU AU AU A	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179
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이番1 旅行이3 飛行1 乘務員이4 우려2 없이2 미트事1 地下以2 이랑1 统一2 지만1 Word 집에서2 世上1의 神洋3 오세요2		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F2 545 458 460 493 410	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596 2278 1648	2879 2862 2878 3001 2731 2736 2824 2724 2373 2903 2355 2671 2616 2362 3 2548 2456 2477 2864 2520	金田成田 田本田 田本田 田本田 田本田 田本田 日本田 日本田 日本田 日本田 日本		330 330 321 329 253 243 266 250 285 348 296 291 258 265 310 272 245 F1 F2 371	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2538 2498 2652 2787	1 日 2 期金 同同人人金 民人二二勝 1 日 1 1	N/ N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385	2304 2378 2188 2331 2311 2360 2379 2245 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 22 Fi	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179
이番1 旅行이3 飛行1 乘符1 乘符2 없이2 미食 地이2 미食 地이2 이8 바다의 1 바다의 2 이왕 1 ※ 1 ※ 1 ※ 2 이왕 1 ※ 3 ※ 4 ※ 4 ※ 4 ※ 4 ※ 5 ※ 5 ※ 5 ※ 5 ※ 6 ※ 6 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F3 545 458 460 493 410 420	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596 2278 1648 2087	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 3 2548 2456 2477 2864 2520 2867	金金金金三人人人人 本真真 コ進人大 実い金金金 三人人人人 本真真 コルロ 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1		330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245 F1 F2 371 378	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2498 2652 2787	1 月 2 月 3 日 4 日 5 日 5 日 5 日 5 日 5 日 5 日 5 日 5 日 5	NI N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2411 2159 2402 2177 2279 2338 2 Fi 2258 2406	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179
이番1 旅行이3 飛行1 乘務員이4 우려2 없이2 미트事1 地下以2 이랑1 统一2 지만1 Word 집에서2 世上1의 神洋3 오세요2		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F2 545 458 460 493 410	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596 2278 1648	2879 2862 2878 3001 2731 2736 2824 2724 2373 2903 2355 2671 2616 2362 3 2548 2456 2477 2864 2520	金田成田 田本田 田本田 田本田 田本田 田本田 日本田 日本田 日本田 日本田 日本		330 330 321 329 253 243 266 250 285 348 296 291 258 265 310 272 245 F1 F2 371	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2538 2498 2652 2787	1 日 2 期金 同同人人金 民人二二勝 1 日 1 1	N/ N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385	2304 2378 2188 2331 2311 2360 2379 2245 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 22 Fi	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179
이番1 旅行이3 飛行1 乘符1 乘符2 없이2 미食 地이2 미食 地이2 이8 바다의 1 바다의 2 이왕 1 ※ 1 ※ 1 ※ 2 이왕 1 ※ 3 ※ 4 ※ 4 ※ 4 ※ 4 ※ 5 ※ 5 ※ 5 ※ 5 ※ 6 ※ 6 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F3 545 458 460 493 410 420	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596 2278 1648 2087	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 3 2548 2456 2477 2864 2520 2867	金日正正日記記記記記記記記記記記記記記記記記記記記記記記記記記記記記記記記記記		330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245 F1 F2 371 378 386	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498 2652 2787	1 期金同同人人金民人二二勝の 1 間 日 成 2 2 義 1 日 1 日 1 会 2 2 義 1 日 1 日 2 日 2 日 2 日 2 日 2 日 4 日 1 日 2 日 2 日 1 日 4 自 2 日 1 日 2 日 1 日 2 日 1 日 2 日 1 日 2 日 2 日	NI N	307 324 490 426 462 365 367 436 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431 510	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 2 E F: 2258 2406 2247	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179
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이番1 旅行이3 飛行1 乘符1 乘符2 없이2 미食 地이2 미食 地이2 이8 바다의 1 바다의 2 이왕 1 ※ 1 ※ 1 ※ 2 이왕 1 ※ 3 ※ 4 ※ 4 ※ 4 ※ 4 ※ 5 ※ 5 ※ 5 ※ 5 ※ 6 ※ 6 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7 ※ 7		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F2 545 458 460 493 410 420 479	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596 2278 1648 2087	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 3 2548 2456 2477 2864 2520 2867	金金金金 H T T T T T T T T T T T T T T T T T		330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245 F1 F2 371 378 386	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498 2652 2787	1 期金同同人人金民人二二勝の 1 間 日 成 2 2 義 1 日 1 日 1 会 2 2 義 1 日 1 日 2 日 2 日 2 日 2 日 2 日 4 日 1 日 2 日 2 日 1 日 4 自 2 日 1 日 2 日 1 日 2 日 1 日 2 日 1 日 2 日 2 日	NI N	307 324 490 426 462 365 367 436 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431 510	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 2 Fi 2258 2406 2247	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179
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이番1 旅行이3 飛行70 飛行75 與이4 무리2 없이2 미트事1 地 아니오2 이하는 2 지만1 소. 고만1 소. 고만1 소. 고만1 보上上의 海海2 데에서2 世世上上의 海洋3 오네요1 데시우다1 함께2 리어타1 함께2 데시우다1 함께2 리어타1 함께2 데시우다1 함께2 리어타1 함께2 리어타1 하게2 데시우다1		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F3 545 460 493 410 420 479 471 573 465 452	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1596 2278 1648 2087 1852	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 2477 2864 2520 2867 2465 2635 2635 2635 2635 2635 2635 2635 26	金金金金 三人人人人 幸真真 三 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		330 330 321 329 253 243 266 250 285 348 296 291 258 321 265 310 272 245 F1 F2 371 378 386 416 401 365 359 326	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2 2 5 F 2061 1973 2112 2111 2111 2113 2075 2123	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2538 2652 2787 3 2610 2570 2603 2704 2401 2675 2850 2549	九期金同同人人金民人二二勝の競民の民競 W人同同期四川 1 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	NI N	307 324 490 426 462 365 367 436 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431 510 525 572 541 479 494	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 4 3 2 2 4 6 2 2 3 2 3 2 2 4 6 2 2 3 2 3 2 3 2 4 6 2 3 2 3 2 3 2 3 2 4 5 2 3 2 3 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 8 2 3 3 3 3	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179 3211 3223 3109 3090 3110 3090 3110 3090 3090 309
이番1 旅行이3 飛行行3 飛行行員이4 무없이2 미章事 下端1 아니랑—2 이하는—2 지統—2 Word 집世比1 의海 모네이터1 세우다1 함께로네3 하게로제2 제시3 기메로메3		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F: 545 458 460 493 410 420 479 471 573 465 452 566	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1596 2278 1648 2087 1852 1896 1528 1828 1828	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 2456 2477 2864 2520 2867 2465 2635 2682 2645	金金金金 U 人人人人 本真真真工		330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245 F1 F2 371 378 386 416 401 365 359 326 420	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498 2652 2787 3 2610 2570 2603 2704 2401 2675 2850 2549 2444	1 期金同同人人金民人二二勝 1 1 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1 1 2 1 1 1 1 2 1	\(\text{NI} \) \(\text{NI} \	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431 510 525 572 541 479 494 425	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 246 247 2293 2402 2177 2279 2338	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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이番1 旅行이3 飛行이3 飛行行員이4 무없이2 막이2 막이2 막이2 바다니오 이 1 보건으 이 2 이 2 이 3 사다나오 이 3 사다나오 이 3 사다나오 이 3 사다나오 이 3 사다나오 이 4 사다나오 이 4 사다오 이 4 사 4 사 4 사 4 사 4 사 4 사 4 사 4 사		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F: 545 458 460 493 410 420 479 471 573 465 452 566 520	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1596 2278 1648 2087 1852 1896 1528 1828 1828 1828 1831 1555 1520	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 2548 2456 2477 2864 2520 2867 2465 2635 2682 2645 2910 2645 2697	金金金金 三人人人人 文字 真真 ユ進人大 といる金金金 三人人人人 大字 真真 ユ進人大 といる 三人人人人 大字 真真 ユ進人大 といる 全球 による といる はいます といる といる はいます といる		330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245 F1 F2 371 378 386 416 401 365 359 326 420 477	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2061 2044 1973 2112 2111 2133 2075 2123 2036 2158	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2538 2538 2652 2787 3 2610 2570 2603 2704 2401 2675 2850 2549 2494 2401 2675 2850 2549 2444 2581	九期金同同人人金民人二二勝の競民の 12 1日間日志志2 12 12 12 12 12 12 14 12 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	\(\text{NI} \) \(\text{NI} \	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431 510 525 572 541 479 494 425 515	2304 2378 2188 2331 2311 2360 2379 2245 2237 2228 2248 2411 2159 2269 2402 2177 2279 2338 2258 2406 2247 2293 2140 2145 2293 2140 2145 2293 2140 2145 2293 2140 2145 2293 2332 248	3316 3197 2928 2889 3354 3004 3231 2964 2955 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179 3211 3223 3109 3090 3110 3098 3030 3092 3169 2994
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이番1 旅行이3 飛行이3 飛行所 1 乗 2 없이2 미트事 1 地 아니랑-2 地 아니랑-2 Word 2 世 世 上 上 의海 오데에서 2 世 世 보 上 보 의 의海 오데에 우다 1 함 그라게 목데 2 에 의 기 에 목데 2 라이우다 1 함 그라게 2 에 에 대한 1 에 대한 1		332 451 429 544 379 387 318 391 428 422 450 490 404 541 F1 F2 545 460 493 410 479 471 573 465 452 566 520 462 442	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596 2278 1648 2087 1852 1896 1528 1828 1828 1828 1828 1831 1555 1528	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 2548 2456 2477 2864 2520 2867 2465 2635 2682 2645 2910 2645 2697 2722 2585	金金金金 三人人人人 李真真 ユニカー は 1 日正正 日 日 日 正 正 日 日 日 正 正 日 日 民 民 民 福 心 心 리 步 民 元 나 力 当 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日		330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245 F1 F2 371 378 386 416 401 365 359 490 477 395 490 493 493 494 494 495 495 495 495 495 495 495 495	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2411 2111 2133 2075 2123 2036 2158 1901 2010 1935 2205	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2589 2498 2652 2787 3 2610 2570 2603 2704 2404 2404 2575 2850 2549 2444 2549 2444 2581 2588 2591	九期金同同人人金民人二二勝の競民の民競 W人同同期白別祖同金祖別日1 1 2 2 養 1 1 4 2 2 養 1 1 4 1 2 2 1 2 1 2 2 養 1 1 4 2 2 1 3 3 3 3 4 3 3 4 4 3 3 9 4 3 3 9 4 3 3 9 4 3 9 9 9 9	NI N	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431 510 525 572 541 479 494 425 515 521 533 585 480	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 2406 2407 2293 2140 2145 2295 2324 2050 1953 2151 2264	3316 3197 2928 2889 3354 3004 3231 2965 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
이番1 旅行이3 飛行이3 飛行所3 원이4 무없이2 모이2 모이2 보는 바다 보고 이 바다 2 이 바다 2 Word 집世 보는 시의 의 지수 대한 기의 의 지수 대한 기의		332 451 429 544 379 387 318 391 428 422 450 499 404 541 F1 F: 545 460 493 410 420 479 471 573 465 452 566 520 462 442 548	1904 2187 2120 1990 1854 1759 1949 1813 1828 2063 1950 2253 1789 2244 2 F3 1637 1595 1596 2278 1648 2087 1852 1896 1528 1828 1828 1828 1831 1585 1520 1581	2879 2862 2878 3001 2731 2786 2824 2724 2373 2903 2355 2671 2616 2362 2548 2456 2477 2864 2520 2867 2465 2635 26682 2645 2910 2645 2997 2722 2588 2745	金金金 三人人人人 本真真 ユ進人大 リナ金金 田正正 日民民民福心 1 2 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2		330 330 321 329 253 243 266 250 285 348 296 291 258 263 321 265 310 272 245 F1 F2 371 378 386 416 401 365 359 490 477 395 490 493 493 494 494 495 495 495 495 495 495 495 495	1960 2314 1910 2099 2384 2357 2501 2212 2282 2267 2139 2093 2222 2447 2094 2408 1844 2206 2361 2411 2111 2133 2075 2123 2036 2158 1901 2010 1935 2205	2330 3419 2413 2744 3148 3086 3267 2722 2888 2835 2736 2492 2549 3185 2538 2538 2538 2652 2787 3 2610 2570 2603 2704 2401 2675 2850 2549 2444 2581 2581 2581 2588 2581 2588 2589	九期金同同人人金民人二二勝の競民の民競 W人同同期白別祖同金祖別日記志民民日主民十十利番技族番族技 の民志志間頭서別國志江國州서院表 では 2 養日 日1 全 2 全 1 日1 会 2 会 2 後 1 日2 会 2 後 1 日4 会 2 会 2 と 2 を 2 と 2 を 2 と 2 を 3 3 3 3 4 4 4 2 3 3 4 4 4 2 3 3 4 4 4 4	\(\text{Fil} \) \(\te	307 324 490 426 462 365 367 436 354 455 290 367 476 297 327 362 280 373 385 F1 F2 674 431 510 525 572 541 479 494 425 515 521 533 585 480	2304 2378 2188 2331 2311 2360 2379 2245 2237 2323 2278 2248 2411 2159 2269 2402 2177 2279 2338 2406 2407 2293 2140 2145 2295 2324 2050 1953 2151 2264	3316 3197 2928 2889 3354 3004 3231 2965 3156 3627 3357 3245 3436 3123 3137 3449 3293 3179 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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에서1	/e/	455	1628	2296	에	/e/	463	2167	2733	國際2	/e/	572	2194	3028
當身의3	/e/	644	1878	1988	 언제나2	/e/	396	1820	2625	여기에3	/e/	497	2171	3313
에서1	/e/	432	1723	2229	함께2	/e/	397	2050	2527	에게1	/e/	399	2149	3192
에서1	/e/	536	1844	2268	지난에3	/e/	485	2089	2129	에게2	/e/	517	2288	3273
어떻게3	/e/	421	1940	2497	지난에3	/e/	392	2133	2692	第十次 1	/e/	523	2161	3151
					將軍님의4	/e/	427	2203	2734	第四十次1	/e/	527	1996	3295
Word	Vowel	F1 F2	2 F:	3	빛나게3	/e/	350	2154	2466	에게1	/e/	509	2144	2914
金色2	/ε/	522	1738	2475	에게1	/e/	320	2084	2519	第四十次1	/e/	449	2016	3213
										TALL DIK	767	443	2010	3213
銀色2	/ε/	457	1955	2393	에게2	/e/	349	2090	2628					
世上의 海洋4	/ε/	581	1776	2572	結心하게4	/e/	411	1805	2378	Word	Vowel	F1 F2	2 F	3
트랙터2	/٤/	505	1562	2334	單숨에3	/e/	363	2218	2773	白頭山1	/٤/	612	2247	3131
					人民의3	/e/	446	2113	2585	偉大한2	/٤/	554	2193	2560
2 -∠-0	1-1	E 40	4444	0000										
旅行2	/٤/	540	1441	2006	人民의3	/e/	370	2274	2909	白頭山1	/٤/	590	2179	3004
海外1	/٤/	495	1568	1932	지난에3	/e/	364	2085	2735	偉大한2	/ε/	623	2223	2864
為해2	/٤/	535	1724	2730						大元首님1	/٤/	553	2132	3010
旅行2	/٤/	559	1499	2369	Word	Vowel	F1 F2	. F:	3	偉大한2	/٤/	550	2316	2634
그래서2	/ε/	530	1487	2673	親愛하는2	/ε/	423	2029	2461	件人ご= 偉大한2	/ε/	565	2192	2795
為해2	/٤/	552	1729	2816	偉大한2	/ε/	330	2095	2487	노래2	/٤/	456	2161	2409
勸해 도2	/ε/	578	1463	2801	幸福1	/ε/	337	2022	2487	偉大한2	/ε/	499	2323	3044
때	/٤/	502	1503	2726	大元首님1	/٤/	396	1842	2360	萬壽臺3	/٤/	445	1999	2655
					對해1	/٤/	393	2059	2610	競技大會3	/٤/	540	2145	3094
戰爭2	/٤/	478	1628	2329	白頭山1	/ε/	474	2021	2628		/ε/	346	2265	3400
										했습니다1				
對해1	/ε/	437	1875	2650	새로운1	/ε/	484	1877	2553	競技大會3	/ε/	554	2102	3096
생각해요1	/٤/	555	1895	2563	軍隊2	/٤/	357	1864	2453	競技大會3	/٤/	551	2088	2925
생각해요3	/٤/	436	1905	2532	偉大한2	/٤/	323	2075	2705	跆拳道1	/٤/	646	2228	3132
0 1 11—1					大元首님1	/٤/	449	2074	2497	萬壽臺3	/٤/	608	2207	2493
		-4 -												
Word	Vowel	F1 F2			軍隊2	/٤/	380	2020	2522	競技大會3	/٤/	479	2157	3103
살다1	/a/	726	1350	2842	偉大한2	/٤/	411	2041	2557	했습니다1	/٤/	393	2347	3338
살다2	/a/	813	1321	2853	偉大한2	/٤/	290	2202	2500					
移民가다3	/a/	664	1337	2793	偉大한2	/٤/	405	2048	2556	Word	Vowel	F1 F2	2 F	3
		672	1232					2027	2549			840	1652	
移民가다4	/a/			2848	白頭山1	/٤/	421			黨	/a/			2450
繼續하다3	/a/	699	1383	2876	軍隊2	/٤/	363	2027	2385	領導者3	/a/	803	1648	2602
繼續하다4	/a/	780	1370	2858	不敗2	/٤/	393	2010	2511	敬愛하는3	/a/	889	1853	2950
瞬間2	/a/	781	1401	2616	現代2	/٤/	447	1850	2536	나라1	/a/	819	1758	2901
國家2	/a/	790	1279	2568	現代2	/٤/	351	2015	2586	. · · 訪問 1	/a/	903	1663	2724
野望2	/a/	835	1224	2919	새로운1	/ε/	507	1828	2459	하고1	/a/	796	1218	1659
科學2	/a/	756	1209	2848	새로운1	/٤/	448	1841	2502	이딸리아2	/a/	848	1219	1674
					對한1	/٤/	307	2002	2625	이딸리아2	/a/	812	1673	2866
外할아버지2	/a/	704	1460	2002	偉大한2	/٤/	320	2148	2544	까지1	/a/	848	1610	2759
外할아버지3	/a/	698	1425	2368	偉大한2	/ε/	330	2189	2682	期間2	/a/	791	1775	2715
家族1	/a/	649	1415	2320	오래2	/٤/	478	2022	2634	白頭山3	/a/	911	1707	3007
갔다1	/a/	753	1379	2208	偉大한2	/٤/	287	2150	2638	偉大한3	/a/	993	1800	2751
갔다2	/a/	733	1361	1897	大元首님1	/٤/	431	2146	2347	白頭山3	/a/	917	1777	2945
했다2	/a/	712	1388	1581	偉大한2	/e/	355	2183	2692	나라1	/a/	895	1648	2833
外할머니2	/a/	702	1416	2498	오래2	/٤/	475	2089	2609	偉大한3	/a/	###	1907	2979
하시고1	/a/	640	1437	2764	偉大한2	/٤/	326	2164	2704	敬愛하는3	/a/	891	1803	2812
事故1	/a/	760	1465	2857						戰士2	/a/	###	1880	2842
하여1	/a/	657	1467	2653	Word	Vowel	F1 F2	. F:	2	偉大한3	/a/	862	1733	2767
0 041	rai	001	1407	2000										
					親愛하는3	/a/	624	1430	2351	金江山3	/a/	927	1686	2506
타고1	/a/	720	1255	2633	將軍1	/a/	563	1240	2074	金江山2	/a/	883	1575	2890
나오서1	/a/	723	1263	1434	사랑하는1	/a/	660	1303	2533	金江山3	/a/	939	1762	2186
갈아갔어요1	/a/	778	1363	1575	사랑하는2	/a/	573	1278	1987	金江山3	/a/	942	1820	2785
갈아갔어요1	/a/	762	1407	2633	사랑하는3	/a/								2615
當身1	/a/		1-101				558	1213	2231	計會主差1	la!	###	1768	
	iHI	7//	1450	1520			558 561	1213	2231	社會主義1 借士하3	/a/	### 045	1768	
家族1		741	1450	1528	온나라2	/a/	561	1282	2416	偉大한3	/a/	945	1817	2908
	/a/	735	1434	2421	온나라2 온나라3	/a/ /a/	561 589	1282 1194	2416 2147	偉大 한3 領導者3	lal lal	945 787	1817 1280	2908 1795
싸운1					온나라2	/a/	561	1282	2416	偉大한3	/a/	945	1817	2908
	/a/	735	1434	2421	온나라2 온나라3	/a/ /a/	561 589	1282 1194	2416 2147	偉大 한3 領導者3	lal lal	945 787	1817 1280	2908 1795
싸운1 사람1	/a/ /a/ /a/	735 752 756	1434 1180 1459	2421 2209 2946	온나라2 온나라3 偉大 한3 가장1	/a/ /a/ /a/ /a/	561 589 570 786	1282 1194 1595 1390	2416 2147 2497 2602	偉大 한3 領導者3 金江山2 偉大 한3	lal lal lal lal	945 787 781 ###	1817 1280 1635 1861	2908 1795 2531 2799
싸운1 사람1 사람2	lal lal lal lal	735 752 756 775	1434 1180 1459 1432	2421 2209 2946 2699	온나라2 온나라3 偉大 한3 가장1 가장2	lal lal lal lal lal	561 589 570 786 667	1282 1194 1595 1390 1341	2416 2147 2497 2602 2335	偉大 한3 領導者3 金江山2 偉大 한3 말	lal lal lal lal lal	945 787 781 ### 800	1817 1280 1635 1861 1270	2908 1795 2531 2799 2742
싸운1 사람1 사람2 아니오1	lal lal lal lal	735 752 756 775 770	1434 1180 1459 1432 1435	2421 2209 2946 2699 2282	온나라2 온나라3 偉大 한3 가장1 가장2 黨	lal lal lal lal lal	561 589 570 786 667 623	1282 1194 1595 1390 1341 1396	2416 2147 2497 2602 2335 2283	偉大한3 領導者3 金江山2 偉大한3 말 나라1	lal lal lal lal lal	945 787 781 ### 800 854	1817 1280 1635 1861 1270 1770	2908 1795 2531 2799 2742 2589
싸운1 사람1 사람2 아니오1 한名1	lal lal lal lal	735 752 756 775 770 718	1434 1180 1459 1432 1435 1330	2421 2209 2946 2699 2282 1469	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1	lal lal lal lal lal	561 589 570 786 667 623 500	1282 1194 1595 1390 1341 1396 1162	2416 2147 2497 2602 2335	偉大 한3 領導者3 金江山2 偉大 한3 말	lal lal lal lal lal	945 787 781 ### 800	1817 1280 1635 1861 1270	2908 1795 2531 2799 2742
싸운1 사람1 사람2 아니오1	lal lal lal lal	735 752 756 775 770	1434 1180 1459 1432 1435	2421 2209 2946 2699 2282	온나라2 온나라3 偉大 한3 가장1 가장2 黨	lal lal lal lal lal	561 589 570 786 667 623	1282 1194 1595 1390 1341 1396	2416 2147 2497 2602 2335 2283	偉大한3 領導者3 金江山2 偉大한3 말 나라1	lal lal lal lal lal	945 787 781 ### 800 854	1817 1280 1635 1861 1270 1770	2908 1795 2531 2799 2742 2589
싸운1 사람1 사람2 아니오1 한 名 1 家族1	/a/ /a/ /a/ /a/ /a/ /a/	735 752 756 775 770 718 726	1434 1180 1459 1432 1435 1330 1402	2421 2209 2946 2699 2282 1469 2329	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2	lal lal lal lal lal lal	561 589 570 786 667 623 500 635	1282 1194 1595 1390 1341 1396 1162 1324	2416 2147 2497 2602 2335 2283 2462 2446	偉大한3 領導者3 金江山2 偉大한3 말 나라1 나라2	lal lal lal lal lal lal	945 787 781 ### 800 854	1817 1280 1635 1861 1270 1770 1580	2908 1795 2531 2799 2742 2589 2455
싸운1 사람1 사람2 아니오1 한名1	/a/ /a/ /a/ /a/ /a/	735 752 756 775 770 718	1434 1180 1459 1432 1435 1330	2421 2209 2946 2699 2282 1469	온나라2 온나라3 偉大 한3 가장1 가장2 黨 하고1 온나라2 온나라3	lal lal lal lal lal lal lal	561 589 570 786 667 623 500 635 632	1282 1194 1595 1390 1341 1396 1162 1324 1246	2416 2147 2497 2602 2335 2283 2462 2446 2435	偉大한3 領導者3 金江山2 偉大한3 말 나라1 나라2	/a/ /a/ /a/ /a/ /a/ /a/ Vowel	945 787 781 ### 800 854 908	1817 1280 1635 1861 1270 1770 1580	2908 1795 2531 2799 2742 2589 2455
싸운1 사람1 사람2 아니오1 한 名 1 家族1 생각해요2	lal lal lal lal lal lal lal	735 752 756 775 770 718 726 682	1434 1180 1459 1432 1435 1330 1402 1437	2421 2209 2946 2699 2282 1469 2329 2417	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3	lal lal lal lal lal lal lal lal	561 589 570 786 667 623 500 635 632 652	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348	偉大 한3 領導者3 金江山2 偉大 한3 말 나라1 나라2 Word 金正恩2	/a/ /a/ /a/ /a/ /a/ /v/ Vowel	945 787 781 ### 800 854 908 F1 F2 545	1817 1280 1635 1861 1270 1770 1580 2 F 1326	2908 1795 2531 2799 2742 2589 2455 3
싸운1 사람1 사람2 아니오1 한名1 家族1 생각해요2 Word	lal lal lal lal lal lal lal	735 752 756 775 770 718 726 682	1434 1180 1459 1432 1435 1330 1402 1437	2421 2209 2946 2699 2282 1469 2329 2417	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2	lal lal lal lal lal lal lal lal	561 589 570 786 667 623 500 635 632 652 594	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440	偉大 한3 領導者3 金江山2 偉大 한3 リーレー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロ	/a/ /a/ /a/ /a/ /a/ Vowel ///	945 787 781 ### 800 854 908 F1 F 2 545 487	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217	2908 1795 2531 2799 2742 2589 2455 3 2757 3181
싸운1 사람1 사람2 아니오1 한名1 家族1 생각해요2 Word 偉業2	lal lal lal lal lal lal lal Vowel	735 752 756 775 770 718 726 682 F1 F2	1434 1180 1459 1432 1435 1330 1402 1437 2 F:	2421 2209 2946 2699 2282 1469 2329 2417	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1	lal	561 589 570 786 667 623 500 635 632 652 594 739	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350	偉大 한3 領導者3 金江山2 偉大 한3 リ い라1 い라2 Word 金正恩2 膳物1 金正恩2	/a/ /a/ /a/ /a/ /a/ Vowel /^/ /^/	945 787 781 ### 800 854 908 F1 F2 545 487 577	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140
싸운1 사람1 사람2 아니오1 한名1 家族1 생각해요2 Word	lal lal lal lal lal lal lal	735 752 756 775 770 718 726 682	1434 1180 1459 1432 1435 1330 1402 1437	2421 2209 2946 2699 2282 1469 2329 2417	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2	lal lal lal lal lal lal lal lal	561 589 570 786 667 623 500 635 632 652 594	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440	偉大 한3 領導者3 金江山2 偉大 한3 リーレー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロ	/a/ /a/ /a/ /a/ /a/ Vowel ///	945 787 781 ### 800 854 908 F1 F 2 545 487	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217	2908 1795 2531 2799 2742 2589 2455 3 2757 3181
싸운1 사람1 사람2 아니오1 한名1 家族1 생각해요2 Word 偉業2	lal lal lal lal lal lal lal Vowel	735 752 756 775 770 718 726 682 F1 F2	1434 1180 1459 1432 1435 1330 1402 1437 2 F3	2421 2209 2946 2699 2282 1469 2329 2417	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1	lal	561 589 570 786 667 623 500 635 632 652 594 739 520	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350	偉大 한3 領導者3 金江山2 偉大 한3 リ い라1 い라2 Word 金正恩2 膳物1 金正恩2	/a/ /a/ /a/ /a/ /a/ Vowel /^/ /^/	945 787 781 ### 800 854 908 F1 F2 545 487 577 465	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140
싸운1 사람1 사람2 아니오1 항族1 생각해요2 Word 偉業2 言言語1 言語2	a Vowel n n	735 752 756 775 770 718 726 682 F1 F2 585 733 616	1434 1180 1459 1432 1435 1330 1402 1437 2 F3 1167 1100 1037	2421 2209 2946 2699 2282 1469 2329 2417 2515 2793 2920	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나갈수 있는1	lai lai lai lai lai lai lai lai lai lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435	변 (本) 한3 (報) 점3 金大한3 말 나라1 나라2 Word 金正物1 金膳物1 金膳納1 朝鮮2	a a a a a a Vowel A A A	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635
싸운1 사람1 사람2 아니오1 한名1 家族1 생각해요2 Word 偉業2 言言語2 光復節3		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573	1434 1180 1459 1432 1435 1330 1402 1437 2 F: 1167 1100 1037 1382	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나팔수 있는2 親한2	lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434	(中大한3 領第33 金江(中 (中本) 1 (中本) 2 (무) 나라1 나라2 (무) 나라1 나라2 (무) 사라 1 (무) 사라 1 (a a a a a a vowel N N N	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803
싸운1 사람1 사람2 아니오1 한조族1 생각해요2 Word 偉業2 言語語2 光復節3		735 752 756 775 770 718 726 682 F1 F 2 585 733 616 573 638	1434 1180 1459 1432 1435 1330 1402 1437 2 F: 1167 1100 1037 1382 1107	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나갈수 있는1 나갈수 있는2 歷史2 親한2	lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670 552	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405	偉大 한3 領第3 金本大 韓 2 は 2 は 2 は 4 は 4 は 4 は 4 は 5 2 2 3 3 4 4 4 5 5 5 6 7 8 9 9 1 9 1 1 1 1 1 1 1 2 2 3 3 3 4 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 1 1 1 1 1 1 1	/a/ /a/ /a/ /a/ /a/ Vowel //\ //\ //\ //\ //\	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567 483	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016
싸운1 사람1 사람2 아니오1 한名1 家族1 생각해요2 Word 偉業2 言語類 簡話 第 第 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600	1434 1180 1459 1432 1435 1330 1402 1437 2 F: 1167 1100 1037 1382	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나팔수 있는2 親한2	lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434	변 (東京) 기계 (교)	a a a a a a vowel N N N	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803
싸운1 사람1 사람2 아니오1 한조族1 생각해요2 Word 偉業2 言語語2 光復節3		735 752 756 775 770 718 726 682 F1 F 2 585 733 616 573 638	1434 1180 1459 1432 1435 1330 1402 1437 2 F: 1167 1100 1037 1382 1107	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나갈수 있는1 나갈수 있는2 歷史2 親한2	lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670 552	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405	偉大 한3 領第3 金本大 韓 2 は 2 は 2 は 4 は 4 は 4 は 4 は 5 2 2 3 3 4 4 4 5 5 5 6 7 8 9 9 1 9 1 1 1 1 1 1 1 2 2 3 3 3 4 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 1 1 1 1 1 1 1	/a/ /a/ /a/ /a/ /a/ Vowel //\ //\ //\ //\ //\	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567 483	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016
싸운1 사람1 사람2 아니오1 한底 (하) 하 (하) 하 () 하 (lal	735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522	1434 1180 1459 1432 1435 1330 1402 1437 2 F3 1167 1100 1037 1382 1107 1307 1393	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548 2818 2598	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나갈수 있는1 나갈수 있는2 歷史2 親한2 黨 따라1 따라1	lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670 552 548 654	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405 2383 2459	변 (a a a a a a v v v v	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567 483 597 444	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888 1344 1227	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016 2040 1651
싸운1 사람1 사람2 아니오1 한家族1 각해요2 Word 偉 舊語 復 第 第 第 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522 576	1434 1180 1459 1432 1435 1330 1402 1437 2 F3 1107 1100 1037 1382 1107 1307 1393 975	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548 2818 2598 2790	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나갈수 있는2 歷史2 親한2 黨 따라1 따라2 黨	lai lai lai lai lai lai lai lai lai lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670 552 548 654 652	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359 1246	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405 2383 2459 2262	韓 領領33金集 (本)	a a a a a a v v v v	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567 483 597 444 489	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888 1344 1227 1406	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016 2040 1651 2657
사운1 사람2 아니오1 한조성1 家族1 요2 Word 偉言語後 에서3 開天天리 데어5 開리1 데이터3		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522 576 548	1434 1180 1459 1435 1435 1330 1402 1437 2 F: 1167 1100 1037 1382 1107 1393 975 1127	2421 2209 2946 2699 2282 2417 3 2515 2793 2920 2521 2548 2818 2598 2790 2710	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나갈수 있는2 親한2 親한2 黨 따라1 따라1 따라2 黨	lai	561 589 570 786 667 623 500 632 652 594 739 520 534 670 552 548 654 652 608	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359 1246 1236	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405 2383 2459 2262 2426	후 변경 3 金 2 후 2 부 2 후 2 부 2 후 3 후 3 후 3 후 3 후 3 후 3 후 3 후 3 후 3 후	a a a a a a vowel n n n n n n n	945 787 781 ### 800 854 908 F1 F2 545 487 465 505 567 483 597 444 489 599	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888 1344 1227 1406 1373	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016 2040 1651 2657 1959
싸운1 사람1 사람2 아니오1 한名1 家族1 생각해요2 Word 偉語語 言語復節3 진所叛節3 저에서3 開天節3 머리이터3 神聖하다2	Ial	735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522 576 548 711	1434 1180 1459 1432 1435 1330 1402 1437 2 F5 1167 1100 1037 1382 1107 1393 975 1127 1298	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548 2818 2598 2790 2710 2843	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 시나라2 본나라3 시나기2 나갈수 있는1 나갈수 있는2 歷史2 親한2 黨 따라1 따라2 따라1 따라2 보를 었습니다1 다	lai	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670 552 548 654 652 608 612	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359 1246 1236 1135	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405 2383 2459 2262 2426 2344	使 で で で で で で で で で で	a a a a a a a a a a	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567 483 597 444 489 599 641	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888 1344 1227 1406 1373 1275	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016 2040 1651 2657 1959 2832
사운1 사람2 아니오1 한조성1 家族1 요2 Word 偉言語後 에서3 開天天리 데어5 開리1 데이터3		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522 576 548	1434 1180 1459 1435 1435 1330 1402 1437 2 F: 1167 1100 1037 1382 1107 1393 975 1127	2421 2209 2946 2699 2282 2417 3 2515 2793 2920 2521 2548 2818 2598 2790 2710	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나게2 나갈수 있는1 나갈수 있는2 親한2 親한2 黨 따라1 따라1 따라2 黨	lai	561 589 570 786 667 623 500 632 652 594 739 520 534 670 552 548 654 652 608	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359 1246 1236	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405 2383 2459 2262 2426	후 변경 3 金 2 수 명 3 3 金 2 수 명 3 3 3 4 1 2 2 후 2 나라 1 나라 2 보다 1 보다 2 보다 1 문 2 분 5 명 4 5 5 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6	a a a a a a vowel n n n n n n n	945 787 781 ### 800 854 908 F1 F2 545 487 465 505 567 483 597 444 489 599	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888 1344 1227 1406 1373	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016 2040 1651 2657 1959
싸운1 사람1 사람2 아니오1 한名1 家好 3 생각해 요2 Word 偉語語 2 光접(開天節) 머리(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대) 대의(대) 대) 대) 대) 대) 대) 대) 대) 대) 대) 대) 대) 대)		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522 576 548 711 581	1434 1180 1459 1432 1435 1330 1402 1437 2 F: 1107 1100 1037 1382 1107 1393 975 1127 1298 1128	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548 2818 2598 2790 2710 2843 2569	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사망하는3 빛나게2 나갈수 있는1 나갈수 있는2 歷數2 魏 따라1 따라2 黨 받하2 黨	lai	561 589 570 786 667 623 500 635 632 594 739 520 534 670 552 548 654 652 608 612 630	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359 1246 1236 1135 1468	2416 2147 2497 2602 2335 2283 2462 2446 2350 2164 2435 2434 2405 2383 2459 2262 2426 2344 2368	中ででは、	a a a a a a a a a a	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567 483 597 444 489 641 570	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888 1344 1227 1406 1373 1275	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1803 3016 2040 1651 2657 1959 2832 3042
사운1 사람1 사람2 아니오1 한家は1 公타底 4 이나하 4 이나하 4 이나하 4 이나하 4 이나하 4 이나 4 이나		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522 576 548 711 581	1434 1180 1459 1435 1330 1402 1437 2 F3 1167 1100 1037 1382 1107 1393 975 1127 1298 11128 1110	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548 2818 2598 2790 2710 2843 2569 2643	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사랑하는3 빛나라4 및나갈수 있는1 나갈수 있는2 歷史2 親한2 黨 따라1 따라2 黨 발등 었습니다1 다 토 있는1	a a a a a a a a a a	561 589 570 786 667 623 500 635 632 652 594 739 520 534 670 652 548 654 652 608 612 630 583	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359 1246 1236 1135 1468 1135	2416 2147 2497 2602 2335 2283 2462 2446 2435 2348 2440 2350 2164 2435 2434 2405 2383 2459 2262 2426 2344 2368 2327	使領金 (本学) (本学) (本学) (本学) (本学) (本学) (本学) (本学)	a a a a a a a a a a	945 787 781 ### 800 854 908 F1 F2 545 505 567 465 505 567 444 489 599 641 570 479	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 1888 1344 1227 1406 1373 1275 967 1267	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1635 1803 3016 2040 1651 2657 1959 2832 3042 2408
싸운1 사람1 사람2 아니오1 한名1 家好 3 생각해 요2 Word 偉語語 2 光접(開天節) 머리(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대學) 대의(대) 대의(대) 대) 대) 대) 대) 대) 대) 대) 대) 대) 대) 대) 대)		735 752 756 775 770 718 726 682 F1 F2 585 733 616 573 638 600 522 576 548 711 581	1434 1180 1459 1432 1435 1330 1402 1437 2 F: 1107 1100 1037 1382 1107 1393 975 1127 1298 1128	2421 2209 2946 2699 2282 1469 2329 2417 3 2515 2793 2920 2521 2548 2818 2598 2790 2710 2843 2569	온나라2 온나라3 偉大한3 가장1 가장2 黨 하고1 온나라2 온나라3 사망하는3 빛나게2 나갈수 있는1 나갈수 있는2 歷數2 魏 따라1 따라2 黨 받하2 黨	lai	561 589 570 786 667 623 500 635 632 594 739 520 534 670 552 548 654 652 608 612 630	1282 1194 1595 1390 1341 1396 1162 1324 1246 1296 1379 1445 1259 1503 1397 1404 1350 1359 1246 1236 1135 1468	2416 2147 2497 2602 2335 2283 2462 2446 2350 2164 2435 2434 2405 2383 2459 2262 2426 2344 2368	中ででは、	a a a a a a a a a a	945 787 781 ### 800 854 908 F1 F2 545 487 577 465 505 567 483 597 444 489 641 570	1817 1280 1635 1861 1270 1770 1580 2 F 1326 1217 1353 999 976 1247 888 1344 1227 1406 1373 1275 967	2908 1795 2531 2799 2742 2589 2455 3 2757 3181 2140 1235 1803 3016 2040 1651 2657 1959 2832 3042

먹으면서4	/^/	644	1031	2491	지난2	/a/	717	1410	2364	金目成3	/^/	620	1022	1803
1—2-1-					1,2-					께서2	/^/	565	1296	2719
0134-0	1.1	704	4004	0000	\4/d		F4 F0			朝鮮2				
0 番2	/^/	784	1204	2903	Word	Vowel	F1 F2	F3			///	567	1268	2946
遠距離2	/^/	572	1163	2716	여러分2	///	430	1299	2229	에서2	/^/	541	1483	2782
처음1	/^/	752	1197	2750	金目成同志3	///	463	1133	2371	만나서3	/^/	483	1207	2963
徹底1	/^/	656	1400	2071	進步的3	///	372	1185	2517	에서2	/^/	486	1078	3082
徹底2	/^/	479	1447	2818	金日成同志3	///	359	1247	2293	先軍節1	///	479	914	3348
들러2	/^/	640	1132	2201	金正日同志2	/^/	359	1224	2412	先軍節3	///	649	1289	2922
換錢2	/^/	527	1434	2812	에서2	///	418	1394	2631	選手1	///	465	866	1937
에서2	/^/	562	1041	2000	朝鮮2	///	381	1369	2545	選手1	///	512	1145	2278
께서2	/^/	588	1130	2855	金目成3	///	388	938	2471	0 番2	/^/	562	943	2673
그래서3	/^/	643	1127	1174	처럼2	///	419	1388	2337	에서는2	/^/	532	953	1562
멀미藥1	/^/	630	1216	2195	너무1	/^/	333	959	2497	健設1	/^/	611	1112	2971
할머니2	/^/	520	1115	1874	받들었습니다3	/^/	399	1130	2443	健設2	///	573	1342	2979
어른들1	/^/	659	1196	3105	여러2	///	409	1297	2212	選手1	///	528	1241	2917
께서2	/^/	576	1440	2784	언제나1	///	349	1131	2673					
德分1	/^/	676	1212	1222	歷史的3	/^/	419	1346	2617	Word	Vowel	F1 F2	? F:	3
먹을수1	/^/	591	1117	1712	미더운2	///	392	1258	2610	最高2	/o/	687	1051	2818
할아버지4	/^/	470	1397	2946	貫徹2	/^/	441	1470	2427	領導者2	/0/	556	1114	2819
				2569	朝鮮2		403					505	1044	
께서2	/^/	651	1356			/^/		1462	2469	하고2	/0/			2719
첫1	/^/	633	1358	2994	千萬1	///	434	1589	2727	同志1	/o/	640	1148	2696
부터2	/^/	699	1204	2855	朝鮮2	///	482	1186	2503	共和國1	/o/	615	965	2923
무척	/^/	645	1297	2816	것을1	///	405	1370	2507	안또니오2	/o/	533	1085	2969
					强盛2	///	355	1041	2463	안또니오4	/0/	556	1176	2841
어떻게1	/^/	698	1086	1864	에서2	/^/	436	1417	2507	最高2	/0/	591	1208	2620
저	/^/	752	1356	2854	强盛2	///	356	1105	2543	同志1	/o/	616	1095	2433
뻐스1	/^/	597	1085	1662	健設1	///	373	1145	2656	朝鮮1	/o/	606	1065	2890
나오서3	/^/	616	1123	2475	健設2	///	476	1379	2376	共和國1	/o/	571	876	2292
青丘驛2	/^/	774	1168	2669	에서2	///	394	1189	2572	으로2	/0/	487	950	2920
에서2	/^/	622	1154	2160	 것을1	/^/	438	1147	2481	一— 同志1	/0/	607	1052	2107
		576			文画· 全國1		379	1188	2730			603		2968
에서2	/^/		1040	1796		/^/				同志1	/0/		1076	
地下鐵3	/^/	623	1347	2516	에서2	///	450	1218	2573	모습1	/0/	540	825	2132
에서2	/^/	629	1150	2345	께서2	///	406	1196	2652	勞動 1	/o/	552	952	2887
戰爭1	/^/	660	1358	1678						勞動2	/o/	557	1125	2207
에서2	/^/	548	1276	2374	Word	Vowel	F1 F2	F3		온	/o/	556	825	3141
저	/^/	688	1286	1664	온나라1	/o/	363	925	2502	_ 모습1	/0/	476	828	1905
戰爭1					民族2					ガロ・ 朝鮮1				
拟于 Ⅰ	/^/	719	1334	2744	内肤4	/o/	426	1315	2400		/o/	510	1476	3049
			4044		^ H 4 H + •		0.40	0.40	0==0	AZ 286 = 0				
그前2	/^/	741	1314	2593	金目成同志4	/o/	313	943	2553	領導를2	/0/	473	1142	1754
コ前2	/^/	741			金目成同志4 金正目同志4		313 350	943 810	2553 2485	들고2	/o/	473 554	1142 1062	1754 2742
コ前2 Word	/^/ Vov			2593 F 3		/o/								
Word	Vov	vel F1 F	:2 I	F3	金正日同志4 하고2	/o/ /o/	350 353	810 929	2485 2183	들 고2 同志1	/o/ /o/	554 567	1062 1166	2742 2795
Word 繼續하다2	Vov /o/	vel F1 F 444	∶2 I 1028	F 3 2711	金正日同志4 하고2 온나라1	/o/ /o/ /o/	350 353 505	810 929 906	2485 2183 2482	들고2 同志1 또	/o/ /o/ /o/	554 567 581	1062 1166 1123	2742 2795 2621
Word 繼續하다2 黃소2	Vov /o/ /o/	vel F1 F 444 462	F 2 I 1028 826	F 3 2711 2821	金正日同志4 하고2 온나라1 모든1	/o/ /o/ /o/ /o/	350 353 505 522	810 929 906 891	2485 2183 2482 2564	들고2 同志1 또 祖 國 1	/o/ /o/ /o/	554 567 581 509	1062 1166 1123 1056	2742 2795 2621 2692
Word 繼續하다2 黃소2 小食1	Vov /o/ /o/ /o/	vel F1 F 444 462 421	1028 826 1064	F3 2711 2821 2763	金正日同志4 하고2 온나라1 모든1 幸福2	/o/ /o/ /o/ /o/ /o/	350 353 505 522 373	810 929 906 891 829	2485 2183 2482 2564 2428	들고2 同志1 또 祖 國 1 하고2	/o/ /o/ /o/ /o/	554 567 581 509 527	1062 1166 1123 1056 1041	2742 2795 2621 2692 2199
Word 繼續하다2 黃소2 小食1 테이블褓4	Vov /o/ /o/ /o/	vel F1 F 444 462 421 422	1028 826 1064 832	2711 2821 2763 2326	金正日同志 4 하고2 온나라1 모든1 幸福 2 으로2	/o/ /o/ /o/ /o/ /o/ /o/	350 353 505 522 373 411	810 929 906 891 829 1023	2485 2183 2482 2564 2428 2437	들고2 同志1 또 祖國 1 하고2 領導者2	/o/ /o/ /o/ /o/ /o/	554 567 581 509 527 556	1062 1166 1123 1056 1041 1148	2742 2795 2621 2692 2199 2349
Word 繼續하다2 黃소2 小食1	Vov /o/ /o/ /o/	vel F1 F 444 462 421	1028 826 1064	F3 2711 2821 2763	金正日同志4 하고2 온나라1 모든1 幸福2	/o/ /o/ /o/ /o/ /o/	350 353 505 522 373	810 929 906 891 829	2485 2183 2482 2564 2428	들고2 同志1 또 祖 國 1 하고2	/o/ /o/ /o/ /o/	554 567 581 509 527	1062 1166 1123 1056 1041	2742 2795 2621 2692 2199
Word 繼續하다2 黃소2 小食1 테이블褓4	Vov /o/ /o/ /o/	vel F1 F 444 462 421 422	1028 826 1064 832	2711 2821 2763 2326	金正日同志 4 하고2 온나라1 모든1 幸福 2 으로2	/o/ /o/ /o/ /o/ /o/ /o/	350 353 505 522 373 411	810 929 906 891 829 1023	2485 2183 2482 2564 2428 2437	들고2 同志1 또 祖國 1 하고2 領導者2	/o/ /o/ /o/ /o/ /o/	554 567 581 509 527 556	1062 1166 1123 1056 1041 1148	2742 2795 2621 2692 2199 2349
Word 繼續하다2 黃소2 小食1 테이블褓4 노르웨이話 오세요1	Vov /o/ /o/ /o/ /o/	vel F1 F 444 462 421 422 357	1028 826 1064 832 1258	2711 2821 2763 2326 2382	金正日同志4 하고2 온나라1 모든1 幸福2 으로2 民族2	/o/ /o/ /o/ /o/ /o/ /o/	350 353 505 522 373 411 440	810 929 906 891 829 1023 1251	2485 2183 2482 2564 2428 2437 2478	들고2 同志1 또 祖國 1 하고2 領導者2 同志1 노래1	/o/ /o/ /o/ /o/ /o/ /o/	554 567 581 509 527 556 567	1062 1166 1123 1056 1041 1148 1156	2742 2795 2621 2692 2199 2349 1860
Word 繼續하다2 黃소2 小食1 테이블褓4 노르웨이턆 오세요1 왼쪽2	Vov /o/ /o/ /o/ /o/ /o/ /o/ /o/ /	vel F1 F 444 462 421 422 357 357 482	1028 826 1064 832 1258 860 901	2711 2821 2763 2326 2382 2448 2566	金正日同志4 하고2 と나라1 모든1 幸福2 으民族2 コ리고3 進步的2	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/	350 353 505 522 373 411 440 388 430	810 929 906 891 829 1023 1251 1075 1032	2485 2183 2482 2564 2428 2437 2478 2510 2557	들고2 同志1 또 祖國 1 하고2 領導者2 同志1	/o/ /o/ /o/ /o/ /o/ /o/	554 567 581 509 527 556 567 587	1062 1166 1123 1056 1041 1148 1156 1193	2742 2795 2621 2692 2199 2349 1860 1751
Word 繼續하다2 黃소2 小食1 테이블褓4 노르웨이턆 오세요1 왼쪽2 오른쪽1	Vov /o/ /o/ /o/ /o/ /o/ /o/ /o/ /	vel F1 F 444 462 421 422 357 357 482 384	1028 826 1064 832 1258 860 901 836	2711 2821 2763 2326 2382 2448 2566 2655	金正日同志4 하고2 온나라1 모든1 幸福2 으 戻 2 民族2 コロ3 進步的2 金日成同志4	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/	350 353 505 522 373 411 440 388 430 383	810 929 906 891 829 1023 1251 1075 1032 836	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435	들고2 同志1 또 祖國 1 하고2 領흥志1 노래1 도族2	/o/ /o/ /o/ /o/ /o/ /o/ /o/	554 567 581 509 527 556 567 587 539	1062 1166 1123 1056 1041 1148 1156 1193 1396	2742 2795 2621 2692 2199 2349 1860 1751 1733
Word 繼續하다2 黃소2 小食1 테이블褓4 노르웨이話 오세요1 오세요1 오루쪽2 오른쪽3	Vov /o/ /o/ /o/ /o/ /o/ /o/ /o/ /	yel F1 F 444 462 421 422 357 357 482 384 428	1028 826 1064 832 1258 860 901 836 1003	2711 2821 2763 2326 2382 2448 2566 2655 2383	金正日同志4 하고2 ピ나라1 모든 A 空 B 変 B 変 B 変 B 変 B 変 B 変 B の B 変 B の B 変 B の B の B の B の B の B の B の B の	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/	350 353 505 522 373 411 440 388 430 383 432	810 929 906 891 829 1023 1251 1075 1032 836 1061	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469	三 2 同志1 生 祖國1 하コ2 領志3 同志1 上 出1 家族2	/o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel	554 567 581 509 527 556 567 587 539	1062 1166 1123 1056 1041 1148 1156 1193 1396	2742 2795 2621 2692 2199 2349 1860 1751 1733
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Word 繼續하다2 黃介2 小向1 네이블褓4 노르웨이詰 오세요1 왼쪽2 오른쪽1 오른쪽1 오른(第2) 光復節2	Vov 0 0 0 0 0 0 0 0 0 0	yel F1 F 444 462 421 422 357 357 482 384 428 535	1028 826 1064 832 1258 860 901 836 1003 756	F3 2711 2821 2763 2326 2382 2448 2566 2655 2383 2532	金正日 市工2 ミレー計1 모든1 幸福2 の底を2 民政ココ3 進步日成日同志4 金正フ2 金正フ2 まり1		350 353 505 522 373 411 440 388 430 383 432 588 435	810 929 906 891 829 1023 1251 1075 1032 836 1061 1314 951	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302	등고2 同志1 또 觀 1 하고2 領導志1 노래1 도族2 Word 우리1 우리1	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel /u/ /u/	554 567 581 509 527 556 567 587 539 F1 F2 390 433	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F3 792 833	2742 2795 2621 2692 2199 2349 1860 1751 1733
Word 繼續하다2 黃介全1 네이블웨이태 모색요1 오르르쪽1 오르른쪽3 次安일당 家族2	Vov	yel F1 F 444 444 462 421 422 357 357 482 384 428 535 433 575	1028 826 1064 832 1258 860 901 836 1003 756	F3 2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584	金 하고2 온 나타1 幸福2 으 民族 2 리步的2 电子正日 立 立 步 时 成 同 志 4 하고2 と 日 다 日 다 日 다 日 다 日 1 章 2 と 1 2 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465	810 929 906 891 829 1023 1251 1075 1032 836 1061 1314 951 942 757	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506	교2 고志1 도祖國1 하領南志1 노래 보고 환 (교리 1 보고 함 (교리 1 보고 1 보고 1 보고 1 보고 1 보고 1 보고 1 보고 1 보고	/o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel /u/ /u/ /u/	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449
Word 繼續하다2 黃소2 첫소1 테이블椺4 노르웨이템 오세요1 왼쪽2 쪽1 오르종第 家母2 家安당님2 그로네2	Vov 0 0 0 0 0 0 0 0 0 0	rel F1 F 444 462 421 422 357 357 482 482 535 433 575 553	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321	F3 2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806	金正フ2 ピー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロー・ ロ		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383	810 929 906 891 1023 1251 1075 1032 836 1061 1314 951 942 757 1153	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452	三 三 三 三 三 三 三 三 三 三 三 三 三 三	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ /u/ /u/	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882
Word 繼續하다2 黃소2 네이블웨이 보로세요1 원쪽2 모르漢 寒어로 모르漢 寒어로 그로네2 그로네로 1	Vov 0 0 0 0 0 0 0 0 0 0	vel F1 F 444 462 421 422 357 357 482 384 428 535 433 575 553 580	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447	金 立 2 ・		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490	810 929 906 891 829 1023 1251 1075 1032 836 1061 1314 951 942 757 1153 1043	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2383	三 2 同 E 祖 3 可 E 祖 3 可 2 者 2 可 2 者 2 可 3 声 3 可 4 可 5 可 6 可 7 可 7 可 7 可 7 可 7 可 7 可 7		554 567 581 509 527 556 567 539 F1 F2 390 433 561 521 475 395	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750
Word 繼續하다2 黃全2 너테이블褓4 노르에요1 왼쪽2 오른쪽1 왼쪽2 오른쪽3 家族2 父로로네2 그로네2 하시고3	Vov 0 0 0 0 0 0 0 0 0 0	yel F1 F4 444 446 462 4221 357 482 384 428 535 433 575 553 580 398	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478	金 か ユー マー		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438	810 929 906 891 1023 1251 1075 1032 836 1061 1314 951 942 757 757 1153 1043 1105	2485 2183 2482 2564 2428 2437 2510 2557 2435 2469 2431 2302 2565 2566 2452 2383 2451	三 2 三 7 2 三 7 3 三		554 567 581 509 527 556 567 539 F1 F2 390 433 561 521 475 395 358	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060
Word 繼續하다2 黃소2 小食1 블웨이타 오세요1 오세요1 오른론(1) 오른본(1) 오른본(1) ※ (1) 오른본(1) ※ (1) 오루 (1) 오우	Vov	yel F1 F 444 462 421 422 357 357 482 384 428 535 433 575 535 580 398 317	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823 826	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478 2369	金 コン マッチ マッチ できます できます できます できます できます できます できます できます		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438 287	810 929 906 891 1023 1251 1075 1032 836 1061 1314 951 942 757 1153 1043 1105 1123	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2383 2451 2507	室司 生祖 か領同 上家 Word 2 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 3 4	10 10 10 10 10 10 10 10	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 358 438	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060 2971
Word 繼續하다2 黃全2 너테이블褓4 노르에요1 왼쪽2 오른쪽1 왼쪽2 오른쪽3 家族2 父로로네2 그로네2 하시고3	Vov 0 0 0 0 0 0 0 0 0 0	yel F1 F4 444 446 462 4221 357 482 384 428 535 433 575 553 580 398	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478	金 か ユー マー		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438	810 929 906 891 1023 1251 1075 1032 836 1061 1314 951 942 757 757 1153 1043 1105	2485 2183 2482 2564 2428 2437 2510 2557 2435 2469 2431 2302 2565 2566 2452 2383 2451	三 2 三 7 2 三 7 3 三		554 567 581 509 527 556 567 539 F1 F2 390 433 561 521 475 395 358	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060
Word 繼續하다2 黃소2 小食1 블웨이타 오세요1 오세요1 오른론(1) 오른본(1) 오른본(1) ※ (1) 오른본(1) ※ (1) 오루 (1) 오우	Vov	yel F1 F 444 462 421 422 357 357 482 384 428 535 433 575 535 580 398 317	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823 826	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478 2369	金 コン マッチ マッチ できます できます できます できます できます できます できます できます		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438 287	810 929 906 891 1023 1251 1075 1032 836 1061 1314 951 942 757 1153 1043 1105 1123	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2383 2451 2507	室司 生祖 か領同 上家 Word 2 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 3 4	10 10 10 10 10 10 10 10	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 358 438	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060 2971
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Word 繼續하다2 黃소全1 네이르에요1 보오네요1 원목으로後 (※母로로에요2 보다네고3 보다네고3 모두도 등 1	Vov	yel F1 F4 F444 444 462 422 357 357 482 384 428 535 553 580 398 317 456 449 541 459	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823 826 920 855 924	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478 2369 2341 2097 1967 2820	金 하고 의 대表 4		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438 287 474 495 448	810 929 906 891 1023 1251 1075 1032 836 1061 1314 951 942 757 1153 1043 1105 1123 1049 1097 909 1054	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2452 2383 2451 2507 2420 2476 2390 2423	三同 E 祖 5 領同 上家 Word 112 2 1 2 1 2 2 1 2 3 2 2 2 3 2 2 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 2 3	10 10 10 10 10 10 10 10	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 358 438 482 624 481 312	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707 891 1116 1288 838	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060 2971 2106 2931 2141 2548
Word 繼續하다2 費介全1 無報4 上 로 제 로 1 로 의 제 로 2 로 2 로 2 로 3 家母로로 1 로 2 로 3 家母로로 1 로 3 로 2 로 4 로 2 로 4 로 2 로 4 로 3 로 2 로 4 로 2 로 4 로 3 로 2 로 4 로 3 로 2 로 4 로 3 로 3 로 4 로 4 로 4 로 4 로 4 로 4 로 4 로 4 로 5 로 5 로 6 로 6 로 6 로 6 로 6 로 6 로 6 로 6 로 6 로 6	Vov Ioi Ioi	yel F1 F4 F444 444 442 422 357 482 384 428 535 553 580 398 317 456 449 541 459 449	1028 826 1064 832 1258 860 901 1336 1003 756 1379 1306 1321 1056 823 826 920 855 920 855 921	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478 2369 2341 2097 1967 2820 1776	金 하고 오 모 하고 나는 1 모 후 으 民 하고 한 하고		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 465 383 490 448 445 287 474 495 448	810 929 906 891 829 1023 1251 1075 836 1061 1314 951 1942 757 1153 1042 1097 909 1054 925	2485 2183 2482 2564 2428 2437 2478 2510 2435 2469 2431 2565 2565 2566 2452 2383 2451 2507 2420 2476 2393 2423 2128	室間 生祖 新領同 上家 W	(o) (u) (u)	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 438 482 624 481 312 314	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707 891 1116 1288 838 846	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060 2971 2106 2931 2141 2548 2376
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Word 繼續하다2 黃소全1 볼웨이로에서 전 보세요 1 볼웨이로 세요 2 본 본 본 본 본 본 본 본 본 본 본 본 본 본 본 본 본 본 본	Vov Ioi Ioi	yel F1 F4 F444 444 442 422 357 482 384 428 535 553 580 398 317 456 449 541 459 449	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823 826 920 855 924 1155 855 1147 1377	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2328 2447 2478 2369 2341 2097 1967 2820 1776 1460 2415	金하오모다라 1 모고 1 모고 1 모드 1 모드 2 모드 2 모드 2 모드 2 모드 2 모드 2 모드 2 모드 3 모드 2 모드 3 모드 3 모드 3 모드 3 모드 3 모드 3 모드 3 모드 3		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438 287 474 495 448 452 398 499 496	810 929 906 891 829 1023 1251 1075 1032 836 1061 1314 951 942 757 1153 1043 1105 1123 1042 1097 909 1054 925 1071 984	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2383 2451 2507 2420 2476 2390 2423 2128 2374 2474	皇同年祖 か領同 上家 W P P S 訪 膳膳 共 國 民 共 將 早 九 九 白白 ロ マ	(o) (u) (u)	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 438 482 624 481 312 314	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707 891 1116 1288 838 846	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060 2971 2106 2931 2141 2548 2376 2744 2900
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Word 繼黃小테노오왼오오光 家父그그하或모事도노괴스到하보레고미미 오타地 제 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등	Vov	vel F1 F4 F444 444 445 442 357 357 482 535 553 580 398 317 456 449 541 459 449 424 406 501 445 440 392 399 405 552 552 511	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823 826 920 855 924 1155 855 1147 1377 935 813 1316 815 837 866 1061 1001 908	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478 2369 2341 2097 1967 2820 1776 1460 2415 2290 2349 2236 2419 2264	金하온 모幸 ○民 ユ進金金하 높이 모民 하同 妄州同 笑하 以 온 하朝 W人 將 역 우人 主人正 고 나는 福 全 え 立の 以 巨族 고 志 이 로志 으 고 고 나고鮮 の民 軍 러 리民 體 民 で は こ 2 2 3 5 1 3 2 1 2 2 2 2 2 2 1 2 1 2 3 3 1 3 1 3		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438 287 474 495 448 452 398 499 496 435 F1 F2 222 271 319 298 289 440 290	810 929 906 891 829 1023 1251 1075 1032 836 1061 1314 951 1942 757 1153 1043 1105 1123 1042 1097 909 1054 123 1071 984 1350 F3 1163 1304 1270 891 1170 1304 1055	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2383 2451 2507 2420 2476 2390 2423 2128 2374 2474 2508	皇同年祖하領同上家 W P P S 訪膳膳共國民共將早九九白白藝藝社祖祖P民共萬國卫志 國卫導志 部族 W O P I I I I I I I I I I I I I I I I I I	IOI	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 358 438 4481 312 314 457 567 464 454 492 515 448 517 501 352 400	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707 891 1116 1288 838 846 1584 1291 1406 1709 1893 852 979 1229 888 1032 990	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 3 1735 1681 1501 1449 2882 2750 2060 2971 2106 2931 2141 2548 2376 294 2628 2744 2900 2394 2628 2766 1643 1923 2184 1819 1801 2034
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Word 繼黃小테노오왼오오光 家父그그하或모事도노괴스到하보레고미미 오타地 제 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등	Vov	vel F1 F4 F444 444 445 442 357 357 482 535 553 580 398 317 456 449 541 459 449 424 406 501 445 440 392 399 405 552 552 511	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823 826 920 855 924 1155 855 1147 1377 935 813 1316 815 837 866 1061 1001 908	2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478 2369 2341 2097 1967 2820 1776 1460 2415 2290 2349 2236 2181 2419 2264	金하온 모幸 ○民 ユ進金金하 높이 모民 하同 妄州同 笑하 以 온 하朝 W人 將 역 우人 主人正 고 나는 福 全 え 立の 以 巨族 고 志 이 로志 으 고 고 나고鮮 の民 軍 러 리民 體 民 で は こ 2 2 3 5 1 3 2 1 2 2 2 2 2 2 1 2 1 2 3 3 1 3 1 3		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438 287 474 495 448 452 398 499 496 435 F1 F2 222 271 319 298 289 440 290	810 929 906 891 829 1023 1251 1075 1032 836 1061 1314 951 1942 757 1153 1043 1105 1123 1042 1097 909 1054 123 1071 984 1350 F3 1163 1304 1270 891 1170 1304 1055	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2383 2451 2507 2420 2476 2390 2423 2128 2374 2474 2508	皇同年祖하領同上家 W P P S 訪膳膳共國民共將早九九白白藝藝社祖祖P民共萬國卫志 國卫導志 部族 W O P I I I I I I I I I I I I I I I I I I	IOI	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 358 438 4481 312 314 457 567 464 454 492 515 448 517 501 352 400	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707 891 1116 1288 838 846 1584 1291 1406 1709 1893 852 979 1229 888 1032 990	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 3 1735 1681 1501 1449 2882 2750 2060 2971 2106 2931 2141 2548 2376 294 2628 2744 2900 2394 2628 2766 1643 1923 2184 1819 1801 2034
Word 繼續소합 1 등 1 등 2 등 2 등 2 등 2 등 2 등 2 등 3 등 2 등 3 등 2 등 3 등 3	Vov	vel F1 F4 F444 444 442 422 357 357 482 384 428 535 580 398 317 456 449 449 449 446 501 445 440 392 399 405 552 555 511 519	1028 826 1064 832 1258 860 901 836 1003 756 1379 1306 1321 1056 823 826 920 855 924 1155 855 1147 1377 935 813 1316 815 837 866 1061 1001 908 1070	73 2711 2821 2763 2326 2382 2448 2566 2655 2383 2532 2328 2584 2806 2447 2478 2369 2341 2097 1967 2820 1776 1460 2415 2290 2349 2236 2181 2419 2264 2459 2609 2499 2452	金하らと 모幸 ○民 コ進金金하 높이 모民 하同 높새同笑 하 以 은 하朝 W 人 將 여 우人 主人 大正 ユート 三 祖 全		350 353 505 522 373 411 440 388 430 383 432 588 435 409 465 383 490 438 287 474 495 448 452 398 499 435 F1 F2 322 271 319 298 289 440 290 332	810 929 906 891 829 1023 1251 1075 1032 836 1061 1314 951 942 757 1153 1043 1105 1123 1042 1097 909 1054 925 1071 984 1350 F3 1163 1304 1270 891 1170 891 1170	2485 2183 2482 2564 2428 2437 2478 2510 2557 2435 2469 2431 2302 2565 2506 2452 2383 2451 2507 2420 2476 2390 2423 2128 2374 2474 2508	与同生祖하領同上家 W・分字訪膳膳共國民共將早九九白白藝藝社祖祖や民共萬國國 卫志 國口導志 引 2 2 1 1 2 2 1 2 1 2 2 1 1 2 2 1 2 1 2	IOI	554 567 581 509 527 556 567 587 539 F1 F2 390 433 561 521 475 395 358 438 482 624 481 312 314 457 567 464 454 424 492 515 448 517 507 507 507 508 508 509 509 509 509 509 509 509 509	1062 1166 1123 1056 1041 1148 1156 1193 1396 2 F: 792 833 755 1173 1248 914 947 1707 891 1116 1288 838 846 1584 1291 1406 1709 1893 852 962 979 1229 888 1032 990 956	2742 2795 2621 2692 2199 2349 1860 1751 1733 3 1735 1681 1501 1449 2882 2750 2060 2971 2106 2931 2141 2548 2376 2744 2900 2394 2628 2662 2766 2744 2900 2394 2628 2666 1643 1923 2184 1819 1801 2034 2167

選手2

首都1

Word

金正恩3

나라를3

있는2 膳物을3 金正恩3

膳物을3

은 敬愛하는4

金正恩3

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에는2

勝利1

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統一1	/o/	577	1116	2676	우리1	/u/	311	983	2199
統一1	/o/	457	822	1661	새로운3	/u/	403	846	2492
보	/o/	480	770	2152	主體1	/u/	346	1571	2480
라고2	/o/	523	825	1972	우리1	/u/	302	832	2320
					軍隊1	/u/	298	1207	2446
Word	Vowel	F1 F2	F	3	將軍님2	/u/	339	1058	2487
瞬間1	/u/	469	1353	2876	너무2	/u/	257	1056	2538
牛乳1	/u/	362	953	2370	우리1	/u/	280	927	2468
牛乳2.5	/u/	348	1240	2255	人民軍3	/u/	290	1003	2485
民主主義2	/u/	309	1719	2551	將軍2	/u/	255	1328	2418
民主主義3	/u/	346	1724	2354	우리1	/u/	297	1123	2249
國家1	/u/	402	1322	2843	軍隊1	/u/	303	1177	2547
추운1	/u/	431	986	2760	將軍님2	/u/	349	1212	2519
運命1	/u/	380	1174	2438	미더운3	/u/	346	925	2558
원숭이2	/u/	379	1405	2397	將軍出1	/u/	328	1127	2545
將軍2	/u/	378	1069	2469	우리1	/u/	320	887	2473
물	/u/	360	941	2485	技術2	/u/	323	1154	2185
세우다2	/u/	432	1292	2390	技術2	/u/	340	1205	2435
					國民1	/u/	268	1052	2424
우리1	/u/	436	1170	2232	우리1	/u/	300	819	2254
準備2	/u/	241	1531	2218					
짐꾼2	/u/	400	970	2168	Word	Vowel	F1 F2	2 F	3
飛行中3	/u/	510	1334	2437	親愛하는4	/ɯ/	374	1387	2219
우리1	/u/	284	1428	2253	同志들3	/ɯ/	412	1496	2484
馴鹿1	/u/	433	1409	2378	將軍들3	/w/	322	1333	2182
注文1	/u/	401	1365	2926	人民들3	/w/	358	1596	2520
注文2	/u/	481	1385	1799	우리는3	/w/	327	1591	2445
德分 2	/u/	416	1248	2909	모든2	/w/	422	1544	2564
韓國2	/u/	370	934	2162	그리고1	/w/	349	1667	2565
74-0012	, ai	0.0	001	2102	人民들3	/w/	356	1676	2545
青丘驛2	/u/	374	1124	2001	나갈수 있는5	/w/	354	1763	2555
두나라1	/u/	409	1133	2404	同志는3	/w/	347	1434	2505
T-47-11	/u/	409	1133	2404	모든2	/w/	319	1438	2599
Word	Vowel	F1 F2	F	2	勝利1	/w/	318	1236	2525
金色1	/w/	354	1467	2305	同志를3	/w/	346	1404	2462
銀色1	/w/	356	1629	2452	勝利1		272	1653	2554
筋肉1		373	1608	2433	同志는3	/w/	371	1466	2394
	/w/					/w/	281	1433	2394
하늘2	/w/	504	1648	2756	뜻	/w/			
테이블褓3	/w/	334	1279	2283	받들었습니다2	/w/	382	1672	2422
노르웨이語2	/w/	368	1181	2406	받들었습니다4	/w/	179	1237	2378
가득하다2	/w/	417	1605	2490	人民들은3 人民들은4	/w/	361	1684	2475
									2558
오른쪽2	/w/	377	1332	2544		/w/	334	1577	0.407
트랙터1	/w/	440	1494	2747	將軍들3	/w/	296	1571	2407
					將軍들3 人民들은3	/w/ /w/	296 261	1571 1599	2625
트랙터1 먹으면서2	/ɯ/ /ɯ/	440 380	1494 1227	2747 2333	將軍 들3 人民들은3 人民들은4	/w/ /w/ /w/	296 261 298	1571 1599 1518	2625 2678
트랙터1 먹으면서2 家旅은3	/w/ /w/ /w/	440 380 568	1494 1227 1362	2747 2333 2931	將軍들3 人民들은3 人民들은4 黨을2	/w/ /w/ /w/ /w/	296 261 298 381	1571 1599 1518 1488	2625 2678 2491
트랙터1 먹으면서2 家旅은3 여름2	/w/ /w/ /w/ /w/	440 380 568 443	1494 1227 1362 1424	2747 2333 2931 1878	將軍들3 人民들은3 人民들은4 黨을2 들	/w/ /w/ /w/ /w/ /w/	296 261 298 381 330	1571 1599 1518 1488 1581	2625 2678 2491 2569
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5	/w/ /w/ /w/ /w/ /w/	440 380 568 443 581	1494 1227 1362 1424 1446	2747 2333 2931 1878 2311	將軍들3 人民들은3 人民들은4 黨을2 들 勝利1	/w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247	1571 1599 1518 1488 1581 1468	2625 2678 2491 2569 2589
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5	/w/ /w/ /w/ /w/ /w/	440 380 568 443 581 387	1494 1227 1362 1424 1446 1448	2747 2333 2931 1878 2311 2226	将軍 等 将軍 等 会 会 会 会 会 会 会 会 と を き と を き を き を を を を を を を を を を を を を	/w/ /w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247 280	1571 1599 1518 1488 1581 1468 1371	2625 2678 2491 2569 2589 2574
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5 께서는3	/w/ /w/ /w/ /w/ /w/ /w/	440 380 568 443 581 387 483	1494 1227 1362 1424 1446 1448 1384	2747 2333 2931 1878 2311 2226 2771	將軍	/w/ /w/ /w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247 280 397	1571 1599 1518 1488 1581 1468 1371 1252	2625 2678 2491 2569 2589 2574 2456
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5 께서는3 들러1	/w/ /w/ /w/ /w/ /w/ /w/ /w/	440 380 568 443 581 387 483 304	1494 1227 1362 1424 1446 1448 1384 1473	2747 2333 2931 1878 2311 2226 2771 2446	將軍들3 人民들은3 人民들은4 黨을2 틀勝利1 勝利을3 朝鮮은3 것을2	/w/ /w/ /w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247 280 397 336	1571 1599 1518 1488 1581 1468 1371 1252 1485	2625 2678 2491 2569 2589 2574 2456 2443
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5 께서는3 들러1 換錢을3	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/	440 380 568 443 581 387 483 304 526	1494 1227 1362 1424 1446 1448 1384 1473 1416	2747 2333 2931 1878 2311 2226 2771 2446 2777	將軍	/w/ /w/ /w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247 280 397	1571 1599 1518 1488 1581 1468 1371 1252	2625 2678 2491 2569 2589 2574 2456
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5 께서는3 들러1 換錢을3 모를2	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/	440 380 568 443 581 387 483 304 526 408	1494 1227 1362 1424 1446 1448 1384 1473 1416 1336	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754	将 軍	/w/ /w/ /w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247 280 397 336	1571 1599 1518 1488 1581 1468 1371 1252 1485	2625 2678 2491 2569 2589 2574 2456 2443
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5 께서는3 들러1 換錢을3 모를2 保險을3	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/	568 443 581 387 483 304 526 408 547	1494 1227 1362 1424 1446 1448 1384 1473 1416 1336 1489	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323	将軍들3 人民들은4 黨을2 틀勝利1 勝利鮮은3 対을2 민음2	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247 280 397 336 264	1571 1599 1518 1488 1581 1468 1371 1252 1485 1296	2625 2678 2491 2569 2589 2574 2456 2443 2461
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5 께서는3 들러1 換錢을3 모물2 保險을3 나는2	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/	568 443 581 387 483 304 526 408 547 537	1494 1227 1362 1424 1446 1448 1384 1473 1416 1336 1489 1471	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323 2766	將軍들3 人民員	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/	296 261 298 381 330 247 280 397 336 264	1571 1599 1518 1488 1581 1468 1371 1252 1485 1296	2625 2678 2491 2569 2589 2574 2456 2443 2461
트랙터1 먹으면서2 家旅은3 여름2 外할머니는5 外할머니를5 께서는3 들러1 換錢을3 모름2 保險을3 나는2 짐을2	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/	568 443 581 387 483 304 526 408 547 537 489	1494 1227 1362 1424 1446 1448 1384 1473 1416 1336 1489 1471 1431	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323 2766 2189	將軍들3 人人第号은2 無 論	/w/ /w/ /w/ /w/ /w/ /w/ /w/ /w/ Vowel	296 261 298 381 330 247 280 397 336 264	1571 1599 1518 1488 1581 1468 1371 1252 1485 1296	2625 2678 2491 2569 2589 2574 2456 2443 2461
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트랙터1 먹으 (유) 함 (유) 하는	(\text{\tint{\text{\tint{\text{\ti}\text{\texict{\text{\text{\text{\texict{\tex{\text{\texict{\text{\texit{\texict{\texictex{\texict{\texictex{\text{\texi{\texi{\texi{\texi{\texict{\texictex{\texict{\texictet	440 380 568 443 581 387 483 304 526 408 547 537 489 361 411 440 414 437 434 431 500 563 295 428 431 316 401 566	1494 1227 1362 1424 1446 1448 1384 1473 1416 1336 1489 1471 1431 1431 1430 1474 1376 1431 1430 1420 1325 1412 1457 1735 1515 1489	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323 2766 2189 2377 1608 2830 2367 1960 2782 2605 2772 2910 2339 2557 2893 2656 2627 2885	# # # # # # # # # # # # # #	/ \(\alpha \) / \(\	296 261 298 381 330 247 280 397 336 264 F1 F2 509 502 594 483 599 584 385 519 584 385 571 511 499 649 492 661	1571 1599 1518 1488 1488 1371 1252 1485 1296 2 2 2519 2413 2330 2357 2497 2497 2495 21647 2495 21645 2185 2505 2327 2101 2053 2519	2625 2678 2491 2569 2589 2574 2456 2443 2461 3 3 3 514 3457 3474 3300 3298 3555 3339 2897 2897 2802 3247 2684 3493 2668 2481 3318
트랙터1 먹으 (한류) 보다 (한류)	/ () () () () () () () () () (440 380 568 443 581 387 483 304 526 408 547 489 361 411 440 414 372 434 431 500 563 295 428 431 316 401 566 401	1494 1227 1362 1424 1446 1448 1384 1471 1436 1489 1471 1431 1430 1420 1420 1325 1412 1457 1735 1515 1489 1429	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323 2766 2189 2377 1608 2830 2367 1960 2782 2605 2772 2910 2339 2557 2893 2656 2627 2885 2800	## A C C C C C C C C C C C C C C C C C C	/\ldots /\ldot	296 261 298 381 330 247 280 397 336 264 F1 F: 509 502 594 483 599 455 519 584 385 415 571 511 499 649 492 661 507	1571 1599 1518 1488 1488 1371 1252 1485 1296 2 2 5519 2413 2330 2357 2497 2531 2647 2495 2164 2465 2185 2505 2327 2101 2053 2510 2511 2651 2651 2751 2751 2751 2751 2751 2751 2751 27	2625 2678 2491 2569 2589 2574 2456 2443 2461 3 3 3514 3457 3474 3300 3298 3555 3339 2897 2802 3247 2684 3493 2668 2489 2481 3318 3471
트랙터1 먹으 (화론2 보드5 外에서나의 등했론2 보드5 外에서러 (유한할 보드는 (유한	/ () / ()	568 443 581 387 483 304 526 408 547 537 489 361 411 440 414 372 434 431 500 563 295 428 431 316 401 566 411 546	1494 1227 1362 1424 1446 1448 1384 1471 1431 1583 1370 1469 1420 1474 1376 1431 1430 1420 1325 1412 1457 1735 1515 1419 1429 1443	2747 2333 2931 1878 2311 2226 2777 2446 2777 2754 2323 2766 2189 2377 1608 2830 2367 1960 2782 2605 2772 2910 2339 2557 2893 2656 2627 2893 2656 2627 2885 2800 2806	将人人黨 = 勝勝 勝朝 教 スピー	/\ldots /\ldot	296 261 298 381 330 247 280 397 336 264 F1 F: 509 502 594 483 599 455 519 584 385 415 571 511 499 649 492 661 507 506	1571 1599 1518 1488 1581 1468 1371 1252 1485 1296 2 2 5519 2413 2330 2357 2497 2531 2647 2495 2164 2465 2185 2505 2327 2101 2053 2510 2511 2617 2417	2625 2678 2491 2569 2589 2574 2456 2443 2461 3 3 3514 3457 3474 3300 3298 3555 3339 2897 2802 3247 2684 2489 2481 3318 3471 3416
트랙터1 먹으 (/ () () () () () () () () () (568 443 581 387 483 304 526 408 547 537 489 361 411 440 414 372 434 431 500 563 295 428 431 316 401 546 546 546	1494 1227 1362 1424 1446 1448 1384 1471 1336 1489 1471 1431 1583 1370 1469 1420 1474 1376 1431 1430 1420 1325 1412 1457 1735 1515 1489 1429 1424 1434 1435	2747 2333 2931 1878 2311 2226 2777 2754 2323 2766 2189 2377 1608 2830 2367 1960 2782 2605 2772 2910 2339 2557 2893 2656 2627 2885 2800 2806 2795	 	/w/	296 261 298 381 330 247 280 397 336 264 F1 F: 509 502 594 483 599 455 519 584 385 415 571 511 499 649 492 661 507 506 428	1571 1599 1518 1488 1581 1468 1371 1252 1485 1296 2 2 5199 2413 2330 2357 2497 2531 2647 2495 2164 2465 2185 2505 2327 2101 2053 2517 2417 2486	2625 2678 2491 2569 2589 2574 2456 2443 2461 3 3 3514 3457 3474 3300 3298 3555 3339 2897 2802 3247 2684 3493 2481 3318 3471 3416 3454
트랙터1 먹 선2 家여름2 사항함서는3 등한합서는3 등한합서는3 등을2 등을2 등을2 등을3 등을3 등을3 등을3 등을4 등을4 등을4 등을4 등을4 등을4 등을5 등을5 등을6 등을6 등을6 등을6 등을7 등을6 등을7 등을8 등은7 등을8 등은7 등을8 등은7 등을8 등은7 등을8 등은7 등을9 등등9 등등9 등등9 등등9 등등9 등등9 등등9 등등9 등등9	(\text{\tint{\text{\tint{\text{\ti}\text{\texict{\text{\text{\text{\texict{\text{\texit{\text{\texict{\texi{\texi{\text{\texi}\text{\texictex{\texit{\texit{\texi{\texi{\text{\texi{\tet	440 380 568 443 581 387 483 304 526 408 547 537 489 361 411 440 414 372 434 431 500 563 295 428 431 316 401 566 566 401 566 566 566 566 566 566 566 56	1494 1227 1362 1424 1446 1448 1384 1473 1416 1336 1471 1431 1583 1370 1469 1420 1474 1376 1431 1430 1420 1420 1421 1431 1430 1420 1420 1421 1431 1430 1420 1420 1420 1420 1420 1420 1420 142	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323 2766 2189 2377 1608 2836 2367 1960 2782 2605 2772 2910 2339 2557 2893 2656 2627 2885 2800 2806 2795 2646	 務人人業 = 勝勝勝朝 契 野野朝女 型 Pyongyang2 Wor書 川村 当 Wor書 川村 1 1 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	/ \(\ldots \) / \(\	296 261 298 381 330 247 280 397 336 264 F1 F2 509 502 594 483 599 455 519 584 385 571 511 499 649 492 661 507 506 428 441	1571 1599 1518 1488 1488 1371 1252 1485 1296 2 2 2519 2413 2330 2357 2497 2531 2647 2495 2164 2465 2185 2505 2327 2101 2053 2519 2413 2519 2647 2495 2195 2195 2195 2195 2195 2195 2195 21	2625 2678 2491 2569 2589 2574 2456 2443 2461 3 3 3514 3457 3474 3300 3298 3555 3339 2897 2802 3247 2684 3493 2684 3493 2481 3318 3471 3416 3454 3381
트랙 1 역 2 家 6 울 2 부 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	/ () () () () () () () () () (440 380 568 443 581 387 483 304 526 408 547 537 489 361 411 440 414 372 434 431 500 563 295 428 431 316 401 566 411 566 411 566 411 566 411 566 411 566 401 566 401 566 401 566 401 566 401 601 602 603 603 603 603 603 603 603 603	1494 1227 1362 1424 1446 1448 1384 1471 1416 1336 1489 1471 1431 1433 1370 1469 1420 1474 1376 1431 1430 1420 1420 1457 1735 1515 1489 1429 1443 1483 1483 1483 1483 1483 1489	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323 2766 2189 2377 1608 2830 2367 1960 2782 2605 2772 2910 2339 2557 2893 2656 2627 2885 2800 2806 2795 2606 2792 2885 2800 2806 2795 2646 2801	將 人人黨=勝勝朝	/ \(\ldots \) / \(\	296 261 298 381 330 247 280 397 336 264 F1 F2 509 502 594 483 599 584 385 519 584 385 571 511 499 649 661 507 506 428 441 463	1571 1599 1518 1488 1488 1371 1252 1485 1296 2 2 2519 2413 2330 2357 2497 2497 2531 2647 2495 2164 2465 2185 2505 2327 2101 2053 2510 2517 2446 2452 2519 27 27 27 27 27 27 27 27 27 27 27 27 27	2625 2678 2491 2569 2589 2574 2456 2443 2461 3 3 3 5 3 3514 3457 3474 3300 3298 3555 3339 2897 2802 2247 2684 3493 2668 2489 2481 3318 3471 3416 3451 3451 3451 3451 3451 3451 3451 3451
트랙터1 먹 선2 家여름2 사항함서는3 등한합서는3 등한합서는3 등을2 등을2 등을2 등을3 등을3 등을3 등을3 등을4 등을4 등을4 등을4 등을4 등을4 등을5 등을5 등을6 등을6 등을6 등을6 등을7 등을6 등을7 등을8 등은7 등을8 등은7 등을8 등은7 등을8 등은7 등을8 등은7 등을9 등등9 등등9 등등9 등등9 등등9 등등9 등등9 등등9 등등9	(\text{\tint{\text{\tint{\text{\ti}\text{\texict{\text{\text{\text{\texict{\text{\texit{\text{\texict{\texi{\texi{\text{\texi}\text{\texictex{\texit{\texit{\texi{\texi{\text{\texi{\tet	440 380 568 443 581 387 483 304 526 408 547 537 489 361 411 440 414 372 434 431 500 563 295 428 431 316 401 566 566 401 566 566 566 566 566 566 566 56	1494 1227 1362 1424 1446 1448 1384 1473 1416 1336 1471 1431 1583 1370 1469 1420 1474 1376 1431 1430 1420 1420 1421 1431 1430 1420 1420 1421 1431 1430 1420 1420 1420 1420 1420 1420 1420 142	2747 2333 2931 1878 2311 2226 2771 2446 2777 2754 2323 2766 2189 2377 1608 2836 2367 1960 2782 2605 2772 2910 2339 2557 2893 2656 2627 2885 2800 2806 2795 2646	 務人人業 = 勝勝勝朝 契 野野朝女 型 Pyongyang2 Wor書 川村 当 Wor書 川村 1 1 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	/ \(\ldots \) / \(\	296 261 298 381 330 247 280 397 336 264 F1 F2 509 502 594 483 599 455 519 584 385 571 511 499 649 492 661 507 506 428 441	1571 1599 1518 1488 1488 1371 1252 1485 1296 2 2 2519 2413 2330 2357 2497 2531 2647 2495 2164 2465 2185 2505 2327 2101 2053 2519 2413 2519 2647 2495 2195 2195 2195 2195 2195 2195 2195 21	2625 2678 2491 2569 2589 2574 2456 2443 2461 3 3 3514 3457 3474 3300 3298 3555 3339 2897 2802 3247 2684 3493 2684 3493 2481 3318 3471 3416 3454 3381

그리워하셨다1	/w/	380	1391	2434	民主主義4	/i/	570	2652	3326
					同志2	/i/	437	2524	3503
오늘2	/w/	456	1704	2591	同志2	/i/	457	2479	3440
오늘2	/w/	398	1539	2550	同志2	/i/	526	2417	3300
家族은3	/w/	454	1439	2176	秘書1	/i/	502	2315	3272
그前1	/w/	410	1583	2501	同志2	/i/	458	2620	3511
들온1	/w/	427	1626	2565	人民2	/i/	589	2242	2966
은	/w/	462	1552	2423	金正日3	/i/	538	2426	3441
Seoul3					Word	Vowel	F1 F2	F3	
Word	Vowel	F1 F2	F3		께서1	/e/	709	2163	2181
視聽者1	/i/	436	1699	2511	人民의 3	/e/	662	1918	2361
지난1	/i/	483	1588	2458	께서1	/e/	675	1930	2465
0	/i/	353	1906	3012	第一1	/e/	551	2356	2580
아직도2	/i/	379	1736	2155	中國의3	/e/	591	2331	2918
直接1	/i/	378	1808	2181	께서1	/e/	601	2230	2874
叱責1	/i/	392	1550	2197	께서1	/e/	647	1892	2383
까지2	/i/	378	1593	2524	中國의3	/e/	536	2051	2380
그린벨트2	/i/	448	1753	2337	께서1	/e/	627	2015	2271
2時場2	/i/	436	1829	2265	世紀의1	/e/	595	1707	2210
치여서1	/i/	410	1625	2359	世紀의3	/e/	524	1962	2353
非理1	/i/	424	1663	2072	께서1	/e/	587	1778	2303
非理2	/i/	422	1691	2440	同志의3	/e/	517	1884	2299
있는1	/i/	457	1729	2154	에서1	/e/	671	1900	2273
基礎1	/i/	389	1787	2815	두나라의4	/e/	654	2213	2410
費用1 導入2	/i/ /i/	345	1778	2863	께서1	/e/	693	1845	2423
基礎1		400	1619	1860	에서1	/e/	566	1683	2259
華₩1 導入2	/i/ /i/	432 396	1759 1695	2377 1886	에서1	/e/ /e/	673 575	2045 2021	2624 2246
基礎1	/i/	427	1757	2385	께서1 에서1	/e/	607	1962	2322
七兆圓1	/i/	432	1660	2381	世界1	/e/	473	2100	2426
돈이2	/i/	467	1879	2763	世界2	/e/	446	1967	2379
0	/i/	402	1877	2924	同志의3	/e/	590	2014	2342
費用1	/i/	402	1829	2924	別 別	/e/	557	2162	3044
있는1	/i/	418	1628	2004	께서는1	/e/	548	2032	2293
ルー! 地自體1	/i/	370	1623	2450	에서1	/e/	598	2021	2437
老人2	/i/	470	1894	2419	께서는1	/e/	594	1953	2263
人口1	/i/	506	1888	2721	께서는1	/e/	746	1958	2397
-具(徐1	/i/	347	1656	2621	꼐시1	/e/	709	1926	2260
基礎1 施行1	/i/ /i/	347 378	1656 1644	2621 2462	께서1 人民의 3	/e/	709 673	1926 2038	2260 2404
施行1	/i/	378	1644	2462	께서1 人民의 3	/e/	709 673	1926 2038	2260 2404
					人民의 3	/e/	673	2038	
施行1 視聽 1	/i/	378 394	1644 1659	2462	人民의 3 Word			2038 F3	2404
施行1	/i/ /i/	378 394	1644	2462	人民의 3 Word 偉大한2	/e/ Vowel	673 F1 F2	2038	
施行1 視聽1 Word	/i/ /i/ Vowel	378 394 F1 F2	1644 1659 F3	2462 2405	人民의 3 Word	/e/ Vowel /ε/	673 F1 F2 573	2038 F3 1824	2404
施行1 視聽1 Word 規制2	/i/ /i/ Vowel /e/	378 394 F1 F2 470	1644 1659 F3 1564	2462 2405 2087	人民의 3 Word 偉大한2 偉大한2	/e/ Vowel /ε/ /ε/	673 F1 F2 573 659	2038 F3 1824 1828	2404 2331 2335
施行1 視聽1 Word 規制2 네	/i/ /i/ Vowel /e/ /e/	378 394 F1 F2 470 555	1644 1659 F3 1564 1591	2462 2405 2087 2198	人民의 3 Word 偉大한2 偉大한2 했습니다1	/e/ Vowel /ε/ /ε/ /ε/	673 F1 F2 573 659 577	2038 F3 1824 1828 2043	2404 2331 2335 2415
施行1 視聽1 Word 規制2 네 規制2	/i/ /i/ Vowel /e/ /e/ /e/	378 394 F1 F2 470 555 477	1644 1659 F3 1564 1591 1533	2462 2405 2087 2198 2288	人民의 3 Word 偉大한2 偉大한2 했습니다1 對해1	/e/ Vowel /ε/ /ε/ /ε/ /ε/	673 F1 F2 573 659 577 584	2038 F3 1824 1828 2043 2001	2404 2331 2335 2415 2321
施行1 視聽1 Word 規制2 네 規制2 에게1	/i/ /ii/ Vowel /e/ /e/ /e/	378 394 F1 F2 470 555 477 435	1644 1659 F3 1564 1591 1533 1573	2462 2405 2087 2198 2288 2011	人民의 3 Word 偉大한2 使大한2 했습니다1 對해1 했습니다1	/e/ Vowel /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/	673 F1 F2 573 659 577 584 596	2038 F3 1824 1828 2043 2001 2159	2404 2331 2335 2415 2321 2519
施行1 視聴1 Word 規制2 川 規制2 에게1 에게1	/i/ /i/ Vowel /e/ /e/ /e/ /e/ /e/	378 394 F1 F2 470 555 477 435 494	1644 1659 F3 1564 1591 1533 1573 1672	2462 2405 2087 2198 2288 2011 2254	人民의 3 Word 偉大한2 偉大한2 韓습니다1 했습니다1 했습니다1	/e/ Vowel /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/	673 F1 F2 573 659 577 584 596 686	2038 F3 1824 1828 2043 2001 2159 2174	2331 2335 2415 2321 2519 2834
施行1 視聴1 Word 規制2 川 規制2 에게1 例게1 規制2 規制2	/i/ /i/ Vowel /e/ /e/ /e/ /e/ /e/	378 394 F1 F2 470 555 477 435 494 440	1644 1659 F3 1564 1591 1533 1573 1672 1594	2462 2405 2087 2198 2288 2011 2254 2288	人民의 3 Word 偉大한2 偉大한2 했습니다1 對해1 했습니다1 개급니다1 새 그대로2	/e/ Vowel /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/	673 F1 F2 573 659 577 584 596 686 704	2038 F3 1824 1828 2043 2001 2159 2174 2249	2331 2335 2415 2321 2519 2834 2786
施行1 視聽1 Word 規制2 네 規制2 에게1 規制2 規制2 그린벨트3	/i/ /i/ Vowel /e/ /e/ /e/ /e/ /e/ /e/ /e/	378 394 F1 F2 470 555 477 435 494 440 481	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474	2462 2405 2087 2198 2288 2011 2254 2288 2227	人民의 3 Word 偉大한2 偉大한2 했습니다1 對해1 했습니다1 내 기대로2 對해1	/e/ Vowel /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/ /ɛ/	673 F1 F2 573 659 577 584 596 686 704 536	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967	2331 2335 2415 2321 2519 2834 2786 2387
施行1 視聽1 Word 規制2 네 規制2 에게1 에게2 規制2 그린벨트3 에서1 있도록겠습니다4 偶然에3	/ii/ //ii/ Vowel /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1658 1597	2462 2405 2087 2198 2288 2011 2254 2288 2227 2147 2193 2260	人民의 3 Word 偉大한2 偉大한2 韓습니다1 對해1 했습니다1 새 그대로2 對해2 對해2 했습니다1		673 F1 F2 573 659 577 584 596 686 704 536 591 592 697	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813	2331 2335 2415 2321 2519 2834 2786 2387 2363 2552 2236
施行1 視聴1 Word 規制2 川 期制2 에게1 規制2 그린벨트3 에서1 以도록겠습니다4 機械3 逮捕1	/ii/ //ii/ Vowel /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1658 1597 1617	2462 2405 2087 2198 2288 2011 2254 2288 2227 2147 2193 2260 2373	人民의 3 Word 偉大한2 偉大한2 韓습니다1 對해1 妣습니다1 새 내대로2 對해1 對해1 했습니다1 対대 보호 對해2 対域 1 해		673 F1 F2 573 659 577 584 596 686 704 536 591 592 697 705	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140	2331 2335 2415 2321 2519 2834 2786 2387 2363 2552 2236 2148
施行1 視聴1 Word 規制2 川規制2 에게1 에게2 規制2 그린벨트3 에서1 以도록겠습니다4 偶然에3 問題2	/ii/ //ii/ Vowel /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /e/ /	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1658 1597 1617	2462 2405 2087 2198 2288 2011 2254 2288 2227 2147 2193 2260 2373 2184	人民의 3 Word 偉大한2 偉大한2 했습니다1 對해1 했습니다1 서 대로2 對해1 對해2 했습니다1 対해2 対해2 対해4 オ제4 オ제4 オ제4 オ제4 オ제4 オ제4 オ제4 オ		673 F1 F2 573 659 577 584 596 686 704 536 591 592 697 705 615	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830	2331 2335 2415 2321 2519 2834 2786 2387 2363 2552 2236 2148 2284
施行1 視聴1 Word 規制2 네 規制2 에게1 에게2 規制2 그린벨트3 에서1 以도록 双습니다4 偶然에3 逮問題2 後年에도3	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1658 1597 1617 1560 1609	2462 2405 2087 2198 2288 2011 2254 2227 2147 2193 2260 2373 2184 2211	人民의 3 Word 偉大한2 偉大한2 競습니다1 했학해1 했다 그대로2 화해2 선니다1 행해2 해4 대대로2 행해2 해4 생해4 행하4 행사1 생생기		673 F2 573 659 577 584 596 686 704 536 591 592 697 705 615 683	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942	2331 2335 2415 2321 2519 2834 2786 2387 2363 2552 2236 2148 2284 2114
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施行1 視 Word 規制2 네 制和2 에게1 에게2 規그런1 왕도에3 리 발 트3 에서1 목3 에서1 목4 場底 編相 1 등 中自體 3 함께2 맞功自府段 (한) 이제2 맞功自內體 1 등 1 등 1 등 1 등 1 등 1 등 1 등 1 등 1 등 1	fi fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1658 1597 1617 1560 1609 1602 1759 1456 1456 1456 1456 1499 1491 1456 1456 1456 1456 1456 1456 1456 145	2462 2405 2087 2198 2288 2011 2254 2227 2147 2193 2260 2373 2184 2211 2318 2366 2251 2231 2043 2104 2256 2256 2251 2231 2043 2106 2256 2256 2251 2231 2043 2106 2106 2106 2106 2106 2106 2106 2106	人民의 3 Word 偉大한2 偉大한2 使大台1 (한 1) (한 1) (한 2) (한 1) (한 2) (한 1) (한 2) (한 1) (한 2) (한 3) (한 4) (한 5) (한 4) (한 4) (한 4) (한 4) (한 4) (한 4) (한 4) (한 4) (한 5) (한 4) (한 4		673 F2 F2 573 659 577 584 596 686 591 592 697 705 615 683 696 740 564 482 643 650 667 6631 657	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942 1732 1899 1991 1917 2113 2227 2124 2210 2164 2143	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2236 2114 2114 2114 2114 2214 2391 2940 2386 2597 2395
施行1 視期1 Word 規制2 川制2 에게1 例別2 見型 트3 에서1 見型 트3 에서5 現成補1 問題2 後地前3 管中自體3 動対2 맞り自衛體3 軟門2 以地方で例3 軟門の1 競別3 以時間3 以時間3 以時間3 以時間3 以時間3 以時間3 以時間3 以時間	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501 537	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1617 1560 1602 1759 1586 1456 1456 1458 1459 1458 1459 1458 1459 1458 1458 1459 1458 1459 1458 1458 1458 1458 1458 1458 1458 1458	2462 2405 2087 2198 2288 2011 2254 2288 2227 2147 2193 2260 2373 2184 2318 2366 1969 2251 2231 2043 2104 2256 2291 2333 2236	人民의 3 Word 偉偉大한2 (中大한2 (中大한2 (中大한3) (中大한3) (中大한3) (中大한4 (中大한4) (中大한4) (中大한5) (中大党5) (中大	Pe Vowel	673 F2 F2 659 577 584 536 591 592 697 705 615 683 696 740 564 482 643 650 667 631 657 611	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942 1732 1899 1991 1917 2213 2227 2124 2210 2164 22164 2217 2164 2217	2404 2331 2335 2415 2321 2519 2834 2786 2387 2363 2148 2284 2114 2410 2412 2324 2324 2394 2396 2296 2296 2395 2597 2395 2593
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施行I 視 Word 規制2 네 制 2 에게1 에게2 일 트 3 에서1 및 트 3 에서5 및 본 4 製 급 된 1 보 2 보 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 467 462 498 526 589 453 513 426 501 537 458 496	1644 1659 F3 1564 1591 1533 1573 1572 1594 1474 1567 1658 1697 1617 1560 1609 1602 1759 1586 1456 1608 1608 1605 1499 1802 1773 1616 1536 1462 1536 1462 1628	2462 2405 2405 2087 2198 2288 2011 2254 2227 2147 2193 2260 2373 2184 2211 2318 2366 1969 2251 2231 2043 2104 2256 2291 2333 2104 2256 2291 2333 2336 2267 2353	人民의 3 Word 健康 한국 한 2 전 1 전 2 전 2 전 2 전 3 전 4 전 5 전 5 전 5 전 5 전 5 전 5 전 5 전 5 전 5	Pe	673 F2 F2 F373 659 577 584 596 686 704 536 591 592 697 705 615 683 696 740 564 482 643 650 667 631 657 611 599 590	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942 1732 1899 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 1794	2404 2331 2335 2415 2321 2519 2387 2363 2552 2148 2284 2114 2131 2410 2412 2324 2391 2396 2597 2395 2597 2395 2597 2395 2396 2296 2296 2297 2397
施行1 視 表 (한편 規制2 네 制 2 에게1 에게2 보드3 에서1 및 트3 에서1 목에3 리 나다4 (佛建) 제 2 (根據補1) 1 (根據補1) 1 (根據神1) 1 (根據神1) 1 (根據神1) 1 (根據神1) 1 (제本) 1 (和本) 1	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501 537 458 496 550	1644 1659 F3 1564 1591 1533 1573 1573 1672 1594 1474 1567 1658 1597 1617 1560 1609 1602 1759 1586 1456 1456 1499 1802 1773 1616 1536 1462 1628 1582	2462 2405 2087 2198 2288 2011 2254 2288 2227 2147 2193 2260 2373 2184 2211 2318 2366 1969 2251 2231 2043 2040 2256 2291 2333 2104 2256 2291 2333 2236 2267 2353 2223	人民의 3 Word 偉偉했對했새그對對對했大해해보는 대변 대변 대변 보고 대변 대변 대	Pe	673 F2 F2 F373 F584 F596 F597 F687 F687 F687 F687 F687 F687 F687 F68	2038 F3 1824 1828 2043 2001 2159 1967 1996 2007 1813 2140 1830 1942 1732 1899 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 1794	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2148 2284 2114 2131 2410 2412 2324 2390 2597 2395 2597 2395 2597 2395 2597 2395 2597 2391 2414
施行1 視 (根) 전 (根) 전 (제) 전 (m)	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501 537 458 496 550 533	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1658 1597 1617 1560 1609 1602 1759 1608 1456 1456 1456 1456 1456 1456 1456 1456	2462 2405 2087 2198 2288 2011 2254 2254 227 2147 2193 2260 2373 2184 2211 2318 2366 2251 2231 2043 21043 21043 21043 2256 2256 2291 2333 2236 2256 2291 2333 2236 2267 2353 2268 227 237 2388 227 237 2388 2388 2388 23	人民의 3 Word 企業 한 전 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 2 전 한 3 전 한 2 전 한 3 전 한 3 전 한 3 전 한 3 전 한 3 전 한 3 전 한 3 전 한 3 전 한 2 전 한 3 전 한		673 F2 F2 573 659 577 584 596 6704 536 659 705 6615 683 696 766 482 643 650 667 661 599 6709 639	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942 1732 1899 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 2097 20	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2236 2148 2214 2114 2131 2410 2324 2391 2940 2385 2597 2395 2593 2321 2414 2296 2597 2395 2414 2291
施行1 視期 Word 規制 2 네 制 12 에게 1 에게 2 에서 1 로이에 13 에서 1 로이에 14 로이에 15 로이에 15 도이에 1		378 394 F1 F2 470 555 477 435 494 440 481 461 448 513 509 520 465 457 462 498 526 589 453 513 426 501 537 458 496 550 550 550 550 550 550 550 550 560 570 570 570 570 570 570 570 570 570 57	1644 1659 F3 1564 1591 1533 1573 1572 1594 1474 1567 1617 1560 1602 1759 1586 1456 1456 1459 1802 1773 1616 1456 1456 1456 1456 1456 1456 1456	2462 2405 2405 2087 2198 2288 2011 2254 2288 2227 2193 2260 2373 2184 2211 2318 2366 1969 2251 2231 2043 2104 2256 2291 2333 2260 227 2318 2318 2318 2318 2318 2318 2318 2318	人民의 3 Word 偉偉했對했새그對對對했大해해보는 대변 대변 대변 보고 대변 대변 대	Pe	673 F2 F2 F373 F584 F596 F597 F687 F687 F687 F687 F687 F687 F687 F68	2038 F3 1824 1828 2043 2001 2159 1967 1996 2007 1813 2140 1830 1942 1732 1899 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 1794	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2148 2284 2114 2131 2410 2412 2324 2390 2597 2395 2597 2395 2597 2395 2597 2395 2597 2391 2414
施行1 視 (根) 전 (根) 전 (제) 전 (m)	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501 537 458 496 550 533	1644 1659 F3 1564 1591 1533 1573 1672 1594 1474 1567 1658 1597 1617 1560 1609 1602 1759 1608 1456 1456 1456 1456 1456 1456 1456 1456	2462 2405 2087 2198 2288 2011 2254 2254 227 2147 2193 2260 2373 2184 2211 2318 2366 2251 2231 2043 21043 21043 21043 2256 2256 2291 2333 2236 2256 2291 2333 2236 2267 2353 2268 227 237 2388 227 237 2388 2388 2388 23	人 Word 역 여 했 한 한 2 인 대 한 2 인 대 한 2 인 대 한 2 인 대 한 2 인 대 한 2 인 대 한 2 인 대 한 3 한 2 인 대 한 3 한 3 한 3 한 3 한 3 한 3 한 3 한 3 한 3 한	Pe	673 F1 F2 573 659 577 584 596 686 704 536 591 705 615 683 667 766 740 564 482 643 650 667 631 657 611 599 590 709 639 778	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942 1732 1899 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 1794 1994 1994 1994 2024 2058	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2236 2148 2214 2114 2131 2410 2324 2391 2940 2385 2597 2395 2593 2321 2414 2296 2597 2395 2414 2291
施視 Word 規制 2 에게 1 에게 1 에게 1 에게 2 별 3 에게 2 별 3 에게 2 별 3 에게 3 일 발표 4 제 3 입사 4 1 원 4 1 원 4 1 원 4 1 원 4 1 원 4 1 원 5 1 원 6 1 원 7 원 6 1 원 7 원 6 1 원 7 원 6 1 원 7 원 6 1 원 7 원 7 원 7 원 7 원 7 원 7 원 7 원 7 원 7 원	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501 537 458 496 550 533 435 469	1644 1659 F3 1564 1591 1533 1573 1572 1594 1474 1567 1658 1597 1617 1560 1609 1602 1759 1586 1456 1456 1608 1608 1608 1608 1499 1802 1773 1616 1536 1628 1536 1428 1532 1428 1542 1542 1542 1542 1542 1542 1542 1542	2462 2405 2405 2087 2198 2288 2011 2254 2288 2227 2193 2260 2373 2184 2211 2318 2366 1969 2251 2231 2043 2104 2256 2291 2333 2260 227 2318 2318 2318 2318 2318 2318 2318 2318	人民 Word (후 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 3 (한 2) 한 3 (한 2) 한 3 (한 2) 한 3 (한 2) 한 4 (한		673 F2 573 659 577 584 596 686 704 536 697 705 615 683 696 740 564 482 643 667 631 657 611 599 590 709 639 778	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942 1732 1889 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 1794 1994 2024 2058	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2418 2284 2114 2131 2410 2412 2324 2391 2940 2597 2395 2593 2392 237 2414 2291 2683
施行1 視 Word 規制 2 에게1 制 2 에게1 및 트3 에서1 및 트3 에서5 및 번 1 록 3 에서5 및 번 1 록 3 에서6 및 번 1 록 3 에 1 등 3 번 2 에 1 등 3 번 2 에 1 등 3 번	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501 537 458 496 550 533 435 469 F1 F2	1644 1659 F3 1564 1591 1533 1573 1572 1594 1474 1567 1658 1597 1617 1560 1609 1602 1759 1586 1456 1456 1499 1802 1773 1616 1536 1462 1628 1582 1428 1518 1572	2462 2405 2087 2198 2288 2011 2254 2288 2227 2147 2193 2260 2373 2184 2211 2318 2366 1969 2251 2231 2043 2104 2256 2291 2333 2236 2257 2257 2258 227 237 237 237 237 237 247 257 257 257 257 257 257 257 257 257 25	人 Word 여 후 했射 했 새 그 對對 했 大 해 해 생 現 대 생 내 후 후 한 2 인 다 1 다 1 대 로 1 대 해 2 대 대 로 1 대 대 로 1 대 대 로 1 대 대 로 1 인 는 한 한 한 는 한 한 한 는 한 한 한 는 한 한 한 는 2 인 한 한 는 2 인 한 한 한 는 2 인 한 한 한 한 한 한 한 한 한 한 한 2 인 한 한 한 한 한		673 F2 573 659 577 584 596 686 704 536 697 705 615 683 696 740 564 482 643 650 667 631 657 611 657 611 659 590 709 639 778	2038 F3 1824 1828 2043 2001 2159 1967 1996 2007 1813 2140 1830 1942 1732 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 1794 1994 2024 2058 F3	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2148 2284 2114 2131 2410 2412 2324 2391 2940 2597 2395 2593 2593 2414 2291 2683
施視 Word 規制 2 에게 1 에게 1 에게 1 에게 2 별 3 에게 2 별 3 에게 2 별 3 에게 3 일 발표 4 제 3 입사 4 1 원 4 1 원 4 1 원 4 1 원 4 1 원 4 1 원 5 1 원 6 1 원 7 원 6 1 원 7 원 6 1 원 7 원 6 1 원 7 원 6 1 원 7 원 7 원 7 원 7 원 7 원 7 원 7 원 7 원 7 원	fi	378 394 F1 F2 470 555 477 435 494 440 481 461 448 482 513 509 520 465 457 462 498 526 589 453 513 426 501 537 458 496 550 533 435 469	1644 1659 F3 1564 1591 1533 1573 1572 1594 1474 1567 1658 1597 1617 1560 1609 1602 1759 1586 1456 1456 1608 1608 1608 1608 1499 1802 1773 1616 1536 1628 1536 1428 1532 1428 1542 1542 1542 1542 1542 1542 1542 1542	2462 2405 2405 2087 2198 2288 2011 2254 2288 2227 2193 2260 2373 2184 2211 2318 2366 1969 2251 2231 2043 2104 2256 2291 2333 2260 227 2318 2318 2318 2318 2318 2318 2318 2318	人民 Word (후 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 2 (한 2) 한 3 (한 2) 한 3 (한 2) 한 3 (한 2) 한 3 (한 2) 한 4 (한		673 F2 573 659 577 584 596 686 704 536 697 705 615 683 696 740 564 482 643 667 631 657 611 599 590 709 639 778	2038 F3 1824 1828 2043 2001 2159 2174 2249 1967 1996 2007 1813 2140 1830 1942 1732 1889 1991 1917 2113 2227 2124 2210 2164 2143 2247 2096 1794 1994 2024 2058	2404 2331 2335 2415 2321 2519 2786 2387 2363 2552 2418 2284 2114 2131 2410 2412 2324 2391 2940 2597 2395 2593 2392 237 2414 2291 2683

叱責2	101	448	1571	1958	- 1 니어스 니티오	101	784	1737	2447
	/ε/				하시였습니다6	/a/			
大統領1	/٤/	441	1594	2087	黨	/a/	737	1479	2096
갬핑場1	/٤/	591	1700	2272	領導者1	/a/	891	1593	2387
새누리黨1	/٤/	504	1557	2199	共産黨2	/a/	726	1755	2403
		447	1596	2354			700	1699	2369
對한1	/ε/				共産黨3	/a/			
깨고1	/٤/	505	1682	2283	하여1	/a/	827	1782	2279
보내2	/٤/	469	1751	2251	訪問1	/a/	891	1529	2319
 為해2	/٤/	576	1624	2145	하시였습니다1	/a/	958	1676	2218
오래2	/٤/	541	1643	2190	하시였습니다6	/a/	770	1723	2591
來年1	/٤/	480	1770	2068	勞動黨3	/a/	653	1536	2244
施行2	/٤/	498	1672	2043	勞動黨3	/a/	786	1606	2188
		640		2367			670	1557	2252
百億圓1	/ε/		1582		勞動黨3	/a/			
為해2	/ε/	534	1674	2274	黨	/a/	855	1611	2547
行政1	/٤/	524	1706	2205	領導者1	/a/	724	1684	2086
執行2	/ε/	534	1591	2189	為하여2	/a/	883	1775	2553
지내2	/٤/	556	1688	2261	또다시2	/a/	682	1610	2067
새	/٤/	511	1466	2349	訪問1	/a/	770	1608	2446
배	/٤/	600	1588	2363	하고1	/a/	871	1623	2227
脫出해3	/٤/	551	1504	2242	다하여1	/a/	830	1442	2190
했다는1	/٤/	482	1499	2223	共産黨2	/a/	746	1807	1935
接待2	/٤/	478	1501	2255	共産黨3	/a/	732	1611	2125
했습니다1	/٤/	423	1468	2268	共産黨2	/a/	738	1636	2132
지내고2	/٤/	519	1475	2335	共産黨3	/a/	753	1629	2175
보내2	/٤/	443	1584	2129	나라1	/a/	738	1633	2281
幸福1	/ε/	506	1608	2244	만나시고1	/a/	894	1553	2245
行事1	/٤/	503	1659	2152	訪問1	/a/	759	1476	2190
行列1	/٤/	515	1737	2095	하여1	/a/	811	1784	2164
					41-11		• • • •		
새벽1	/ε/	480	1424	2308				_	
					Word	Vowel	F1 F2	F	3
Word	Vowel	F1 F2	F3	3	朝鮮2	/^/	584	1678	2386
安寧1	/a/	746	1337	2409	秘書2	///	732	1450	2502
하십니까4	/a/	677	1173	2570	朝鮮2	/ / /	728	1525	2495
지난2	/a/	575	1338	2336	金正日2	///	589	1233	2358
合同1	/a/	587	1012	2701	께서2	/ N /	731	1101	2292
내라고1					朝鮮2			1633	
	/a/	628	1228	2384		/ N /	744		2512
아직도1	/a/	737	1190	2411	秘書2	/ N /	777	1670	2657
規制가3	/a/	652	1291	2440	朝鮮2	/ N /	579	1519	2622
많다는1	/a/	755	1165	2550	金正目2	/^/	596	1277	2588
	/a/	755	1100	2000	並正日2	//V	590	12//	2500
많다는1	/a/	605	1384	2376	께서2	/ / /	789	1651	2794
많다는1									
많다는1 不滿2	/a/	654	1248	2627	부터2	///	723	957	2289
많다는1 不滿2 앞서1	/a/ /a/	654 648	1248 1099	2627 2523	부터2 朝鮮2	/^/ /^/	723 717	957 1554	2289 2446
많다는1 不滿2 앞서1 까지1	/a/	654	1248	2627	부터2	///	723	957	2289
많다는1 不滿2 앞서1 까지1	/a/ /a/	654 648	1248 1099	2627 2523	부터2 朝鮮2	/^/ /^/	723 717	957 1554	2289 2446
많다는1 不滿2 앞서1 까지1 朴大統領1	lal lal lal lal	654 648 548 654	1248 1099 1315 1092	2627 2523 2334 2459	부터2 朝鮮2 朝鮮2 秘書2	/N /N /N	723 717 692 776	957 1554 1562 1538	2289 2446 2400 2052
많다는1 不滿2 앞서1 까지1 朴大統領1 캠핑 場 3	lal lal lal lal lal	654 648 548 654 579	1248 1099 1315 1092 1332	2627 2523 2334 2459 2376	부터2 朝鮮2 朝鮮2 秘書2 朝鮮2	/ \\ / \\ / \\ / \\	723 717 692 776 655	957 1554 1562 1538 1568	2289 2446 2400 2052 2399
많다는1 不滿2 앞서1 까지1 朴大統領1	lal lal lal lal	654 648 548 654	1248 1099 1315 1092	2627 2523 2334 2459	부터2 朝鮮2 朝鮮2 秘書2 朝鮮2 朝鮮2	/N /N /N	723 717 692 776	957 1554 1562 1538	2289 2446 2400 2052
많다는1 不滿2 앞서1 까지1 朴大統領1 캠핑 場 3	lal lal lal lal lal	654 648 548 654 579	1248 1099 1315 1092 1332	2627 2523 2334 2459 2376	부터2 朝鮮2 朝鮮2 秘書2 朝鮮2	/ \\ / \\ / \\ / \\	723 717 692 776 655	957 1554 1562 1538 1568	2289 2446 2400 2052 2399
많다는1 不滿2 앞서1 까지1 朴大統領1 캠핑 場 3 이나2 野球場3	lal lal lal lal lal lal	654 648 548 654 579 665 615	1248 1099 1315 1092 1332 1367 1385	2627 2523 2334 2459 2376 2373 2296	早日2 朝鮮2 朝鮮2 秘書2 朝鮮2 朝鮮2 朝鮮2 朝鮮2	\	723 717 692 776 655 708 685	957 1554 1562 1538 1568 1571 1609	2289 2446 2400 2052 2399 2364 2465
당다는1 不滿2 앞서1 까지1 朴大統領1 캠핑場3 이나2 野球場3 할수1	lal lal lal lal lal lal lal	654 648 548 654 579 665 615	1248 1099 1315 1092 1332 1367 1385 1432	2627 2523 2334 2459 2376 2373 2296 2342	早日2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 秘書2	N	723 717 692 776 655 708 685 621	957 1554 1562 1538 1568 1571 1609 1364	2289 2446 2400 2052 2399 2364 2465 2288
많다는1 不滿2 앞서1 까지1 朴大統領1 캠핑 場 3 이나2 野球場3 행수! 새누리黨4	lal lal lal lal lal lal	654 648 548 654 579 665 615 670 565	1248 1099 1315 1092 1332 1367 1385 1432 1245	2627 2523 2334 2459 2376 2373 2296 2342 2349	早日2 朝鮮2 朝鮮2 報壽2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 秘書2		723 717 692 776 655 708 685 621 677	957 1554 1562 1538 1568 1571 1609 1364 1350	2289 2446 2400 2052 2399 2364 2465 2288 2030
당다는1 不滿2 앞서1 까지1 朴大統領1 캠핑場3 이나2 野球場3 할수1	lal lal lal lal lal lal lal	654 648 548 654 579 665 615	1248 1099 1315 1092 1332 1367 1385 1432	2627 2523 2334 2459 2376 2373 2296 2342	早日2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 秘書2	N	723 717 692 776 655 708 685 621	957 1554 1562 1538 1568 1571 1609 1364	2289 2446 2400 2052 2399 2364 2465 2288
당다는1 不滿2 앞서1 까지1 朴大統領1 캠핑場3 이나2 野球号 채누리黨4 對한2	lal lal lal lal lal lal lal lal	654 648 548 654 579 665 615 670 565 726	1248 1099 1315 1092 1332 1367 1385 1432 1245 1336	2627 2523 2334 2459 2376 2373 2296 2342 2349 2388	早日2 朝鮮2 朝鮮2 朝鮮書2 朝鮮書 朝鮮 朝鮮2 朝鮮 朝鮮 朝鮮 朝鮮 朝鮮 朝鮮 朝鮮 朝鮮 朝 朝 朝 朝		723 717 692 776 655 708 685 621 677 696	957 1554 1562 1538 1568 1571 1609 1364 1350 1217	2289 2446 2400 2052 2399 2364 2465 2288 2030 2056
당다는1 不潔2 앞서1 까지1 차大됐第1 캠핑場3 이나2 野球場3 할수! 새헛한2 動議案3	lal	654 648 548 654 579 665 615 670 565 726 604	1248 1099 1315 1092 1332 1367 1385 1432 1245 1336 1339	2627 2523 2334 2459 2376 2373 2296 2342 2349 2388 2341	早日2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 朝鮮2 秋朝 報書 朝鮮2 秋朝 報書 報 報 書 名 報 司 名 名 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		723 717 692 776 655 708 685 621 677 696 579	957 1554 1562 1538 1568 1571 1609 1364 1350 1217 1301	2289 2446 2400 2052 2399 2364 2465 2288 2030 2056 2279
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대는1 (대) (대) (대) (대) (대) (대) (대) (대) (대) (대)	lai	654 648 548 654 579 665 615 670 665 6726 604 615 690 622 700 620 617 658 577 667 F1 F2 498 456 537 447 455 558 477 558 475 568 576 577 578 579 579 579 579 579 579 579 579 579 579	1248 1099 1315 1092 1332 1367 1385 1432 1245 1336 1339 1311 1283 1149 1150 1173 1387 1176 1039 1292 1426 1039 1292 1426 1039 1292 1426 1039 1292	2627 2523 2334 2459 2376 2373 2296 2342 2349 2388 2341 2415 2312 2866 2136 2593 2436 2379 2310 2382 2364 2379 2310 2382 2364 2379 2310 2382 2364 2158 2797 2224 2187 2214 2187 2214 2187 2214 2314 2415 2314 2415 2310 2382 2364 2379 2370 2370 2370 2370 2370 2370 2370 2370	早朝朝秘朝朝朝朝朝敬朝秘金金金刚金金金秘刚对 W勞勞賽共領同朝勞勞賽領同共營 2222日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	IN	723 717 692 776 655 708 685 621 677 696 579 702 679 745 673 598 721 630 720 F1 F2 799 717 546 690 607 570 709 773 697 543 623 706 494	957 1554 1562 1538 1568 1571 1609 1364 1350 1217 1301 1474 1527 1684 1543 1567 1480 1108 1618 F 1481 1481 1886 1166 1346 1027 1352 1065 827 1566 827 1560 808	2289 2446 2400 2052 2399 2364 2465 2288 2030 2257 2243 2461 2333 2517 2496 3 2416 2153 2095 1909 2421 2295 2681 2309 2136 2307 2751 2370 2357
대는1 (국 (국) 전) 전 (국	lai	654 648 548 559 665 615 670 565 726 604 615 690 573 622 700 620 617 658 577 667 F1 F2 498 445 454 445 558 477 516 582 482 482 501 507	1248 1099 1315 1092 1332 1367 1385 1432 1245 1336 1339 1311 1283 1149 1150 1173 1387 1176 1426 1039 1292 F5 1098 1447 960 926 1190 960 939	2627 2523 2334 2459 2376 2373 2296 2342 2349 2388 2341 2415 2312 2866 2593 2436 2379 2310 2382 2364 2379 2310 2382 2364 2593 2416 2593 2417 2317 2418 2593 2419 2594 2196 2196 2196 2196 2196 2197 2224 2237 224 2257 2266 247 227 227 227 227 227 227 227 227 227	早朝朝秘朝朝朝敬敬总金金金刚金金金秘刚及 W勞勞賽共領同朝勞勞賽領同共共已鮮鮮書鮮鮮鮮書上正正州正正正書以 Word 黨黨1 國書1 1 黨國1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1 1 1 1 2 1	IN	723 717 692 776 655 708 685 621 677 696 579 702 679 770 745 673 598 721 630 720 F1 F2 799 717 546 690 607 570 709 773 697 543 623 706 494 629	957 1554 1562 1538 1571 1609 1364 1350 1217 1301 1474 1527 1684 1543 1567 1480 1108 1618 F 1481 1145 886 1166 1346 1027 1027 1027 1055 827 1565 827 1566 1340 808 960	2289 2446 2400 2052 2399 2364 2465 2288 2030 2056 2279 2243 2461 2636 2333 2517 2333 2613 2217 2353 2613 2217 2353 2095 1909 2421 2295 2681 2300 2136 2307 2751 2370 2357 2607
대는1 (모두) 자자 가 생물 1 대한 1 대한 2 만 시 1 대한 2 만 시 1 대한 2 만 시 1 (화명 1 대한 2 만 시 1 한 2 문 2 만 시 1 한 2 문 2 만 시 1 변 2 만 시 1 변 2 만 시 1 변 2 만 시 1 변 2 만 시 1 변 2 만 시 1 변 2 만 시 1 변 2 만 시 1 변 2 만 시 1 변 2 만 시 1 한	lai	654 648 548 654 579 665 615 670 665 6726 604 615 690 622 700 620 617 658 577 667 F1 F2 498 456 537 447 455 558 477 558 475 568 576 577 578 579 579 579 579 579 579 579 579 579 579	1248 1099 1315 1092 1332 1367 1385 1432 1245 1336 1339 1311 1283 1149 1150 1173 1387 1176 1039 1292 1426 1039 1292 1426 1039 1292 1426 1039 1292	2627 2523 2334 2459 2376 2373 2296 2342 2349 2388 2341 2415 2312 2866 2136 2593 2436 2379 2310 2382 2364 2379 2310 2382 2364 2379 2310 2382 2364 2158 2797 2224 2187 2214 2187 2214 2187 2214 2314 2415 2314 2415 2310 2382 2364 2379 2370 2370 2370 2370 2370 2370 2370 2370	早朝朝秘朝朝朝朝朝敬朝秘金金金刚金金金秘刚对 W勞勞賽共領同朝勞勞賽領同共營 2222日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	IN	723 717 692 776 655 708 685 621 677 696 579 702 679 745 673 598 721 630 720 F1 F2 799 717 546 690 607 570 709 773 697 543 623 706 494	957 1554 1562 1538 1568 1571 1609 1364 1350 1217 1301 1474 1527 1684 1543 1567 1480 1108 1618 F 1481 1481 1886 1166 1346 1027 1352 1065 827 1566 827 1560 808	2289 2446 2400 2052 2399 2364 2465 2288 2030 2257 2243 2461 2333 2517 2496 3 2416 2153 2095 1909 2421 2295 2681 2309 2136 2307 2751 2370 2357
대는1 (국 () 대한	lai	654 648 548 559 665 615 670 565 726 604 615 690 573 622 700 620 617 658 577 667 F1 F2 498 445 454 445 558 477 516 582 482 482 501 507	1248 1099 1315 1092 1332 1367 1385 1432 1245 1336 1339 1311 1283 1149 1150 1173 1387 1176 1426 1039 1292 F5 1098 1447 960 926 1190 960 939	2627 2523 2334 2459 2376 2373 2296 2342 2349 2388 2341 2415 2312 2866 2593 2436 2379 2310 2382 2364 2379 2310 2382 2364 2593 2416 2593 2417 2317 2322 2424 2418 2574 2459 2664 2324 2413 2811 268	早朝朝秘朝朝朝敬敬总金金金刚金金金秘刚及 W勞勞賽共領同朝勞勞賽領同共共已鮮鮮書鮮鮮鮮書上正正州正正正書以 Word 黨黨1 國書1 1 黨國1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1 1 1 1 2 1	IN	723 717 692 776 655 708 685 621 677 696 579 702 679 770 745 673 598 721 630 720 F1 F2 799 717 546 690 607 570 709 773 697 543 623 706 494 629	957 1554 1562 1538 1571 1609 1364 1350 1217 1301 1474 1527 1684 1543 1567 1480 1108 1618 F 1481 1145 886 1166 1346 1027 1027 1027 1055 827 1565 827 1566 1340 808 960	2289 2446 2400 2052 2399 2364 2465 2288 2030 2056 2279 2243 2461 2636 2333 2517 2333 2613 2217 2353 2613 2217 2353 2095 1909 2421 2295 2681 2300 2136 2307 2751 2370 2357 2607

政府1	/ / /	537	1193	2244	共和國1	/o/	649	996	2276
法	/ / /	528	862	2698	同志1	/o/	563	1134	2217
行政2	///	533	1222	2354	朝鮮1	/o/	552	836	2363
先驅1	/^/	575	977	2753	勞動黨1	/o/	732	1519	2197
	/ N /	510	1154	2478	勞動黨2	/o/	680	1659	2109
直接2									
서울1	///	599	1003	2543	同志1	/o/	651	1508	2164
그런데2	///	520	1150	2273	同志1	/o/	692	1264	2250
여덟2	/ / /	489	1162	2317	朝鮮1	/o/	514	982	2137
에서2	/ N /	498	892	2664	勞動黨1	/o/	716	1103	2192
指定2	/^/	498	1243	2297	勞動黨2	/o/	673	1233	1727
에서2	///	523	967	2623	同志1	/o/	695	1256	1932
너무1	/ / /	541	897	2671	同志1	/o/	646	1067	2138
檢疫1	/^/	514	903	2562	同志1	/o/	672	1381	2097
女性2	/^/	540	1047	2384	同志1	/o/	620	1303	2271
視聽2					1.170.		020	.000	
17元明心 乙	/ / /	526	1033	2185					
					Word	Vowel	F1 F2	F3	
Word	Vowel	F1 F2	F3		共和國3	/u/	562	963	2318
合同2	/o/	484	891	2323	共和國3	/u/	739	1202	2242
오늘1	/o/	409	854	2400	訪問2	/u/	658	1555	2425
내라고3	/o/	422	801	2336	民主主義2	/u/	571	1755	2471
오늘1	/o/	483	830	2369	民主主義3	/u/	606	1818	2675
_									
아직도3	/o/	396	893	2219	中國2	/u/	470	820	2138
들어보3	/o/	404	845	2267	共和國3	/u/	609	1275	2533
大統領2	/o/	418	964	2112	共和國3	/u/	614	1033	2150
					訪問2				2496
도	/o/	435	779	2502		/u/	633	1684	
있도록겠습니다2	/o/	434	1147	2312	共和國3	/u/	610	1676	2552
있도록겠습니다3	/o/	410	938	2108	民主主義2	/u/	570	1745	2519
鐵道2	/0/	433	1007	2142	民主主義3	/u/	617	1771	2328
逮捕2	/o/	389	798	2179	共和國3	/u/	594	1365	2407
動議案1	/o/	441	878	2202	中國2	/u/	631	1450	2666
깨고2	/o/	406	775	2239	中國2	/u/	436	782	2069
보내1	/o/	420	785	2116	中國2	/u/	420	861	2085
날로2	/o/	436	752	2625	共和國3	/u/	520	1236	2699
_ 古齡化 1	/o/	384	701	2037	中國1	/u/	537	1527	2420
基礎2	/o/	485	1123	2090	中國2	/u/	571	1427	2353
導入1	/o/	482	1109	2413	中國2	/u/	424	803	2138
					: _		000	1612	2587
道 λ 1	/0/	408	981	1995	中國1	/11/	348		
導入1	/0/	408	981	1995	中國1	/u/	398		
基礎2	/o/	462	1099	2020	中國2	/u/	480	869	2238
基礎2 오래1	/o/	462 391	1099 703	2020 2162	中國2 訪問2	/u/ /u/	480 594	869 1547	2238 2061
基礎2 오래1 七兆圓2	/o/ /o/ /o/	462 391 386	1099 703 1022	2020 2162 1996	中 國 2 訪問2 두나라1	/u/ /u/ /u/	480 594 567	869 1547 952	2238 2061 2293
基礎2 오래1 七兆圓2 後年에도4	/o/ /o/ /o/	462 391 386 448	1099 703 1022 773	2020 2162 1996 2542	中國2 訪問2 두나라1 주신1	/u/ /u/ /u/ /u/	480 594 567 496	869 1547 952 1806	2238 2061 2293 2503
基礎2 오래1 七兆圓2	/o/ /o/ /o/	462 391 386	1099 703 1022	2020 2162 1996	中 國 2 訪問2 두나라1	/u/ /u/ /u/	480 594 567	869 1547 952	2238 2061 2293
基礎2 오래1 七兆圓2 後年에도4 十兆圓2	/o/ /o/ /o/ /o/	462 391 386 448 460	1099 703 1022 773 893	2020 2162 1996 2542 2364	中國2 訪問2 두나라1 주신1 貴重2	/u/ /u/ /u/ /u/ /u/	480 594 567 496 616	869 1547 952 1806 1451	2238 2061 2293 2503 2244
基礎2 오래1 七兆圓2 後年에도4 十兆圓2 돈	/o/ /o/ /o/ /o/ /o/	462 391 386 448 460 430	1099 703 1022 773 893 748	2020 2162 1996 2542 2364 2083	中國2 訪問2 두나라1 주신1 貴重2 大國2	/u/ /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639	869 1547 952 1806 1451 941	2238 2061 2293 2503 2244 2495
基礎2 오래1 七兆圓2 後年에도4 十兆圓2 돈 하고2	/o/ /o/ /o/ /o/ /o/ /o/	462 391 386 448 460 430 401	1099 703 1022 773 893 748 812	2020 2162 1996 2542 2364 2083 2024	中國2 訪問2 두나라1 주신1 貴重2 大國2 祖國2	/u/ /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639 538	869 1547 952 1806 1451 941 1029	2238 2061 2293 2503 2244 2495 2591
基礎2 오래1 七兆圓2 後年에도4 十兆圓2 돈	/o/ /o/ /o/ /o/ /o/	462 391 386 448 460 430	1099 703 1022 773 893 748	2020 2162 1996 2542 2364 2083	中國2 訪問2 두나라1 주신1 貴重2 大國2	/u/ /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639	869 1547 952 1806 1451 941	2238 2061 2293 2503 2244 2495
基礎2 오래1 七兆圓2 後年에도4 十兆圓2 돈 하고2	/o/ /o/ /o/ /o/ /o/ /o/	462 391 386 448 460 430 401 455	1099 703 1022 773 893 748 812	2020 2162 1996 2542 2364 2083 2024	中國2 訪問2 두나라1 주신1 貴重國2 祖國2 中國2	/u/ /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639 538	869 1547 952 1806 1451 941 1029	2238 2061 2293 2503 2244 2495 2591
基礎2 오래1 七兆圖2 後年에도4 十兆圓2 돈 ずコ2 負擔도3 老人1	O O O O O O O O O O	462 391 386 448 460 430 401 455 378	1099 703 1022 773 893 748 812 861 775	2020 2162 1996 2542 2364 2083 2024 2309 2044	中國2 訪問2 두나라1 주신1 貴重2 大國2 祖國2	/u/ /u/ /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639 538 733	869 1547 952 1806 1451 941 1029 1090	2238 2061 2293 2503 2244 2495 2591 2538
基礎2 오래1 七兆圓2 後年에도4 十兆圓2 돈 하고2 負擔도3	O O	462 391 386 448 460 430 401 455	1099 703 1022 773 893 748 812 861	2020 2162 1996 2542 2364 2083 2024 2309	中國2 訪問2 두나라1 章重2 大國2 祖國2 中國2 두나라1	/u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639 538 733 494	869 1547 952 1806 1451 941 1029 1090 1147	2238 2061 2293 2503 2244 2495 2591 2538
基礎2 오래1 七兆園2 後年에도4 十兆園2 E 하고2 負擔도3 老人1 으로2	O O	462 391 386 448 460 430 401 455 378 475	1099 703 1022 773 893 748 812 861 775 849	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335	中國2 訪問2 두나라1 주신1 貞重2 大國2 祖國2 中國2 두나라1	/u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ Vowel	480 594 567 496 616 639 538 733 494	869 1547 952 1806 1451 941 1029 1090 1147	2238 2061 2293 2503 2244 2495 2591 2538 2415
基礎2 오래1 七兆圖2 後年에도4 十兆圓2 돈 ずコ2 負擔도3 老人1	O O O O O O O O O O	462 391 386 448 460 430 401 455 378	1099 703 1022 773 893 748 812 861 775 849	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335	中國2 訪問2 두나라1 주신1 貞重2 大國2 祖國2 中國2 두나라1	/u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639 538 733 494	869 1547 952 1806 1451 941 1029 1090 1147	2238 2061 2293 2503 2244 2495 2591 2538
基礎2 오래1 七兆圓2 後年에도4 十兆圓2 を 하고2 負擔도3 老人1 으로2	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel	462 391 386 448 460 430 401 455 378 475	1099 703 1022 773 893 748 812 861 775 849	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335	中國2 訪問2 두나라1 주신1 責重2 大國2 祖國2 中國2 두나라1 Word 께서는3	/u/ /u/ /u/ /u/ /u/ /u/ /u/ Vowel /u/	480 594 567 496 616 639 538 733 494 F1 F2	869 1547 952 1806 1451 941 1029 1090 1147 F3	2238 2061 2293 2503 2244 2495 2591 2538 2415
基礎2 오래1 七兆圓2 後年에도4 十兆圓2 돈 하고2 負擔도3 老人1 으로2 Word 여러分3	/o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel /u/	462 391 386 448 460 430 401 455 378 475 F1 F2 403	1099 703 1022 773 893 748 812 861 775 849	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335	中國2 前問2 두나라1 주신1 貴重2 社國2 中國2 中國2 두나라1 Word 께서는3 음	/u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ Vowel /w/ /w/	480 594 567 496 616 639 538 733 494 F1 F2 666 658	869 1547 952 1806 1451 941 1029 1090 1147 F3 1743 1871	2238 2061 2293 2503 2244 2495 2591 2538 2415 2431 2492
基礎2 오래1 七兆圓2 後年例도4 十兆圓2 左 하고2 負擔도3 老人1 으로2 Word 여러分3 注文1	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel /u/ /u/	462 391 386 448 460 430 401 455 378 475 F1 F2 403 405	1099 703 1022 773 893 748 812 861 775 849 F3	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335 2218 2065	中國2 訪問2 두나라1 주신1 貴重2 祖國2 中國2 두나라1 Word 께서는3 을 領導者	/u/ /u/ /u/ /u/ /u/ /u/ /u/ Vowel /u/ /u/ /u/	480 594 567 496 616 639 538 733 494 F1 F2 666 658 530	869 1547 952 1806 1451 941 1029 1090 1147 F3 1743 1871 1883	2238 2061 2293 2503 2244 2495 2591 2538 2415 2431 2492 2391
基礎2 오래1 七兆國2 後年에도4 十兆國2 돈 하고2 負擔도3 은으로2 Word 여러分3 注文1 注文2	/o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel /u/	462 391 386 448 460 430 401 455 378 475 F1 F2 403	1099 703 1022 773 893 748 812 861 775 849	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335	中國2 前問2 두나라1 주신1 貴重2 社國2 中國2 中國2 두나라1 Word 께서는3 음	/u/ /u/ /u/ /u/ /u/ /u/ /u/ /u/ Vowel /w/ /w/	480 594 567 496 616 639 538 733 494 F1 F2 666 658	869 1547 952 1806 1451 941 1029 1090 1147 F3 1743 1871	2238 2061 2293 2503 2244 2495 2591 2538 2415 2431 2492
基礎2 오래1 七兆圓2 後年例도4 十兆圓2 左 하고2 負擔도3 老人1 으로2 Word 여러分3 注文1	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ Vowel /u/ /u/	462 391 386 448 460 430 401 455 378 475 F1 F2 403 405	1099 703 1022 773 893 748 812 861 775 849 F3	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335 2218 2065	中國2 訪問2 두나라1 주신1 貴重2 祖國2 中國2 두나라1 Word 께서는3 을 領導者	/u/ /u/ /u/ /u/ /u/ /u/ /u/ Vowel /u/ /u/ /u/	480 594 567 496 616 639 538 733 494 F1 F2 666 658 530	869 1547 952 1806 1451 941 1029 1090 1147 F3 1743 1871 1883	2238 2061 2293 2503 2244 2495 2591 2538 2415 2431 2492 2391
基礎2 오래1 七兆園2 後年에도4 十兆園2 三寺고2 負擔도3 老 見2 Word 여러分3 注文2 不滿1	/o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/ /o/	462 391 386 448 460 430 401 455 378 475 F1 F2 403 405 426 362	1099 703 1022 773 893 748 812 861 775 849 F3 926 954 948 1074	2020 2162 1996 2542 2364 2083 2024 2309 2044 2335 2218 2065 2235 2038	中國2 訪問2 두나라1 주실1 至重2 大國2 社國2 中國2 두나라1 Word 께서는3 을 導足長 領人民國을3	/u/ /u/ /u/ /u/ /u/ /u/ /u/ Vowel /u/ /u/ /u/ /u/ /u/	480 594 567 496 616 639 538 733 494 F1 F2 666 658 530 628 584	869 1547 952 1806 1451 941 1029 1090 1147 F3 1743 1871 1883 1858 1765	2238 2061 2293 2503 2244 2495 2591 2538 2415 2431 2492 2391 2458 2451
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한가운데3	/u/	427	1083	2456	따듯인2	rui	313	1022	2134
진기군대3	rur	421	1005	2430					
Word	Vowel	F1 F2	2 F:	3					
오늘2	/w/	451	1162	2110					
은	/w/	448	970	2202					
오늘2	/w/	433	1249	2301					
많다는3	/w/	487	1391	2308					
들어보1	/w/	439	1222	2195					
大統領은4	/w/	494	1289	2178					
들	/w/	467	1387	2339					
있는2	/w/	509	1475	2199					
豫想을3	/w/	509	1311	2205					
年金2	/w/	402	1281	2054					
年金2	/w/	404	1076	2002					
年金을3	/w/	445	1274	2098					
없는2	/w/	415	1444	2113					
費用을3	/w/	483	1421	2102					
있는2	/w/	476	1496	2102					
많은2	/w/	541	1444	2185					
는	/w/	540	1408	2271					
年金2	/w/	385	1239	2000					
으로1	/w/	403	991	2088					
없는2	/w/	504	1439	2204					
福祉費를4	/w/	447	1359	2080					
福祉費를4	/w/	475	1416	2230					
特段1	/w/	386	1330	1865					
을	/w/	490	1390	2120					
않은2	/w/	498	1381	2299					
을	/w/	435	1399	2209					
그런데1	/w/	441	1329	2014					
밝은2	/w/	479	1309	2117					
오늘2	/w/	482	1268	2201					
작은2	/w/	483	1215	2228					