

A Study of the Relative Frequency Distribution of Syllabic Components in Mandarin Chinese

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1. Introduction

1.1 Scope

The scope of this study is to establish a pattern of frequencies in the syllabic components of Mandarin Chinese. These components are initials, finals (medials, vowels, and endings), and tones as used in the written and spoken language. The statistical counts that have been made and which are tabulated in the paper, are based on the frequency of occurrence of the components in texts or in reported speeches and the counts themselves have been processed by a computer programme.

1.2 Data

The input data used was taken from *A Study on the High Frequency Words Used in Chinese Elementary School Reading Materials* 國民學校常用字彙研究¹. This study was carried out by a consortium of world-famous Chinese linguists over a period of four years. It contains over 750,000 words (or characters),² taken from newspapers, Chinese elementary school texts, students' compositions, children's magazine texts, broadcasting manuscripts and adult popular magazines.³

1.3 Previous review

Not many papers or books have been previously published which discuss the frequency of the syllabic components in Mandarin. A review entitled "To Think about Chinese Vocabulary from a Frequency Count Report" 從一種統計看漢語詞彙 by Zheng Lin-xi 鄭林曦 in 1954,⁴ gives us only a small part of the report which it reviewed. The review included the most frequently used initials and finals, such as /d/ (ㄉ) and /e/ (ㄜ) and initials and finals such as /p/ (ㄆ) and /ia/ (ㄧㄚ) of which the latter are rarely used, but it did not mention the syllabic components which do appear with moderate frequency.

1.4 Uses of this study

The above mentioned report reviewed by Zheng Lin-xi, in which the data collected amounted to no more than 50,000 characters only, can no longer be found in the literary resources of Hong Kong. Therefore, I have considered it worthwhile to present a newer and more comprehensive report on the relative probability distribution of syllabic components in Mandarin; thus providing a reference work for those who wish to improve the standard of Chinese stenography. It may help in the construction of the keyboard and the arrangement of the most frequently used homophonic characters required in the design of a syllabic Chinese typewriter. I venture to suggest that it may be of value to those who may have in mind the development of a "touch type" shorthand machine for use with spoken Mandarin.

In connection with the analysis of the input of the Chinese language in computer programmes, the present study presents scientific results which will prove useful in the future

¹ Prepared by the National Institute for Compilation and Translation, Chung Hwa Book Co. Ltd., Republic of China, 1967.

² *Ibid.* p. 2, the actual number is 753,940. According to my calculation, the grand total is 754,994, only 1,054 (0.14%) more than reported.

³ *Ibid.* pp. 1-2, "Introduction."

⁴ See *Han-yu-de cir he pin-xie-fa* 漢語的詞兒和拼寫法 (Peking: Zhong Hua Book Co., 1956), pp. 31-39. This book is also available in *Yu-wen-hui-pian* 語文彙編 (Hong Kong: Lung Men Press, 1969), Vol. 6.

encoding of each syllable. This paper may also be considered a significant contribution to linguistic studies in Mandarin.

2. Method of study

2.1 An earlier associated study in Cantonese

"A Study of the Frequency of Vocabulary in Cantonese" was the title of my M. Phil. thesis which was finished in 1973, under the supervision of Professor Chou Fa-kao, Professor of Chinese Language and Literature in The Chinese University of Hong Kong.⁵ While I was preparing the thesis and counting the Cantonese vocabulary frequency, I established a system of analysis for the syllabic components in Cantonese, derived from the frequency list of vocabulary.

Six tables were utilized to represent the six major tones in Cantonese.⁶ Each table consisted of a vertical column of initials and a horizontal row of finals (Fig. 1). Thus each of the thousand odd boxes in each table represented a syllable, i.e., the first box at the upper left corner of the first table indicated the syllable together with the homophones entered in the box to which it belonged. The occurrence of initials of each tone could be calculated horizontally, and the occurrence of the finals vertically. Adding the totals of the six tables produced the total occurrence of initials and finals. In addition, the relative distribution frequency of tones, vowels, endings, and syllables could be derived from the resultant totals.

FIGURE 1. A SAMPLE TABLE FOR CALCULATING THE SYLLABIC
COMPONENTS IN CANTONESE

| Initials | Finals | | | Total |
|----------|--------|-----|-----|-------------|
| | a | aai | aau | |
| b | bā | | | |
| p | | | | |
| m | | | | |
| f | | | | |
| d | | | | |
| . | | | | |
| . | | | | |
| . | | | | |
| Total | | | | Grand Total |

⁵ The thesis, written in Chinese, is now available in the library of The Chinese University of Hong Kong.

⁶ These six tones in Cantonese are as follows:

1st tone: high-falling and high-level plus the first entering tone, shang-ru (上入).

2nd tone: high-rising.

3rd tone: middle-level plus the second entering tone, zhong-ru (中入).

4th tone: low-falling.

5th tone: low-rising.

6th tone: low-level plus the third entering tone, xia-ru (下入).

This analysis of the frequency of syllabic components in Cantonese finally became a section within my thesis.

The primary data of the Cantonese study was derived from little more than 50,000 characters, an average book length. Realizing that the quantity of data used was small, my next intention was to use the same method applied to more extensive material such as a broadcast manuscript and in addition to use a computer in order to reduce the time scale of the study and achieve more precise results.

2.2 Secondary data in Mandarin

In 1974, I discovered the book *A Study on the High Frequency Words Used in Chinese Elementary School Reading Materials*.⁷ It occurred to me that it would be useful to shift my research from Cantonese to Mandarin with results reported as secondary data.

The reported vocabulary list which consisted of no more than 5,000 different characters as generated from 750,000 words, was arranged in descending order according to frequency, transcribed by Mandarin Phonetic Letters.

The study included a Mandarin Phonetic Letter index as an appendix. In this index the characters were arranged according to their respective Mandarin Phonetic Letter transcriptions. Characters with the same pronunciation were grouped together. A figure to the right of each character indicated the order number under which the character's frequency could be found in the body of the vocabulary list.

It proved to be more convenient to use the index, since the homophones were already grouped together. In order to make use of the index, the first step was to analyse the actual frequency of each character from the vocabulary list, according to the order number. The second step was to add up the frequencies of characters within each syllable (i.e. homophones). This total occurrence of each syllable was then entered in each box among the five tables representing five tones in Mandarin: 1st, 2nd, 3rd, 4th, and neutral tone.⁸ In this way the occurrence of initials and finals could be calculated by exactly the same process as previously used for Cantonese.

2.3 Application of computer

As the analysis involved over 750,000 characters, I utilized the computer instead of calculation, in order to reduce errors. To use the computer, no tabulation was necessary, and the programme was designed according to the theory discussed above.

2.3.1 Modified System

Since the computer language is incompatible with Mandarin Phonetic Letters, it was necessary that I devise a new romanization for the preparation of the programme. The romanization was devised mainly from the Pin-yin System⁹ since the initials used are the same. However, changes were required for the purpose of writing finals.

Three major points of difference are as follows:

⁷ Refer to n. 1.

⁸ See Appendix I for these five tables.

The transcription used here represented the sounds of characters. It was because no tone-sandhi could be found in the secondary data. Characters in neutral tones are those which have neutral tones only.

⁹ The Pin-yin System 漢語拼音方案 was established in Mainland China in 1957 and is now widely used.

- (a) The vowel /ü/ is written as /y/, so the four members of /ü/ group are changed from ü, üe, üan, ün to y, ye, yan, yn.
- (b) Instead of /i/, the /v/ is used as the final (vowel) for /zh/, /ch/, /sh/, and /r/ initials whereas a /-i/ signal is used in /z/, /c/, and /s/ initials. That is, the syllables zhi, chi, shi, ri, zi, ci, and si in the Pin-yin System are written as zhv, chv, shv, rv, z-i, c-i, and s-i here.¹⁰
- (c) The figures 1, 2, 3, 4, 5 at the end of each romanization indicates the 1st, 2nd, 3rd, 4th, and neutral tones respectively, e.g. bā in Pin-yin is written as ba 1.

Apart from these changes, all other basic forms are used in spelling.

In the Pin-yin System, some finals are subject to change under certain conditions. All forms used here must be basic forms, otherwise, the computer will not operate accurately.¹¹

The correlation between this Modified System and the Pin-yin System is shown in Table 1 (brackets show the International Phonetic Alphabets [IPA]¹² and Mandarin Phonetic Letters [MPL]).

TABLE 1. THE CORRELATION BETWEEN THE MODIFIED SYSTEM AND THE PIN-YIN SYSTEM

A. Initials (same as the Pin-yin System)

| | | | |
|------------|-------------------------|-----------|-----------|
| b (b ㄅ), | p (p ^h ㄆ), | m (m ㄇ), | f (f ㄈ), |
| d (d ㄉ), | t (t ^h ㄊ), | n (n ㄋ), | l (l ㄌ), |
| g (g ㄍ), | k (k ^h ㄎ), | h (x ㄏ), | ∅ (zero), |
| j (tɕ ㄐ), | q (tɕ ^h ㄑ), | x (χ ㄒ), | |
| zh (ʈʂ ㄓ), | ch (ʈʂ ^h ㄔ), | sh (ʂ ㄕ), | r (ʐ ㄖ), |
| z (ʈʂ ㄗ), | c (ʈʂ ^h ㄕ), | s (ʂ ㄕ), | |

¹⁰ The application of these two signals is merely for the purpose of calculating those vowels in a more detailed way. It would be unnecessary if used for other purposes.

¹¹ There are three points about the ways of writing in the Pin-yin System:

1. When /i/, /u/, /ü/, and a final beginning with /i/, /u/ or /ü/ are not preceded by any consonants (zero initial). They must be written as follows:

yi, ya, ye, yan, you, yao, yin, yang, ying, yong.

wu, wa, wo, wai, wei, wan, wen, wang, weng.

yu, yue, yuen, yun (the two dots on u are omitted).

Here the basic forms are used, they are:

i, ia, ie, ian, iou, iao, in, iang, ing, iong.

u, ua, ue, uai, uei, uan, uen, uang, ueng.

y, ye, yan, yn.

2. When /ü/ or a final beginning with /ü/ spells with /j/, /q/, /x/, they may be written as ju, qu, xu, without the two dots on /ü/, but when the consonants /n/, /l/ are followed by /ü/, the two dots cannot be omitted.

Here when the /y/ spells with /j/, /q/, /x/, /n/, /l/, they are written as jy, qy, xy, ny, and ly.

3. /iou/, /uei/, and /uen/ are basic forms, but they must be written as /-iu/, /-ui/, and /-un/ when they are preceded by a consonant.

Here, they remain unchanged e.g., use niou 2 (cow) instead of niú.

¹² The IPA for Mandarin used here is according to the charts in Y. R. Chao, *The Grammar of Spoken Chinese* (University of California Press, 1968), pp. 22-24.

TABLE I (cont'd)

B. Finals

| Modified | Pin-yin | IPA | MPL | Modified | Pin-yin | IPA | MPL |
|----------|---------|-----|-----|----------|---------|-----|-----|
| a | a | A | ㄚ | iou | iou | iou | ㄧㄡ |
| o | o | o | ㄛ | ian | ian | iɛn | ㄧㄢ |
| e | e | ɛ | ㄜ | in | in | in | ㄧㄣ |
| -i | i | z | / | iang | iang | iɛŋ | ㄧㄤ |
| v | i | ɹ | / | ing | ing | iŋ | ㄧㄥ |
| er | er | ə | ㄦ | iong | iong | iɔŋ | ㄧㄤ |
| ai | ai | ai | ㄞ | u | u | u | ㄨ |
| ao | ao | au | ㄞ | ua | ua | ua | ㄨㄚ |
| ou | ou | ou | ㄡ | uo | uo | uɔ | ㄨㄛ |
| an | an | an | ㄢ | uai | uai | uai | ㄨㄞ |
| en | en | ən | ㄩ | uei | uei | uei | ㄨㄟ |
| ang | ang | əŋ | ㄤ | uan | uan | uan | ㄨㄢ |
| eng | eng | ɛŋ | ㄤ | uen | uen | uən | ㄨㄣ |
| ong | ong | ŋ | ㄨㄥ | uang | uang | uɑŋ | ㄨㄤ |
| i | i | ai | ㄧ | ueng | ueng | uaŋ | ㄨㄥ |
| ia | ia | iA | ㄧㄚ | y | ü | y | ㄩ |
| iai | iai | iai | ㄧㄞ | ye | üe | ye | ㄩㄞ |
| iao | iao | iəu | ㄧㄠ | yan | üan | yan | ㄩㄠ |
| ie | ie | iɛ | ㄧㄝ | yn | ün | yn | ㄩㄣ |
| io | io | io | ㄧㄛ | | | | |

2.3.2 Programme

The programme (ALGOL) containing approximately 250 cards can be seen in Appendix III. I wish to thank Mr. Wong Kar-lung, a tutor and graduate student of the Electronics Department, The Chinese University of Hong Kong in 1975, for writing the computer programme.

2.3.3 Input data

The secondary data outlined above was first listed out phonetically together with the frequency of its occurrence and then added to the occurrence of homophones to get the frequency of each syllable. The total number of syllables studied was 1,153. Each syllable is part of a relative distribution frequency. This was the input data to be punched. The number of its frequency was punched after the tone of a syllable, e.g. ba 1: 2216 means the first tone of ba syllable occurred 2,216 times in 750,000 characters.

The 1,153 syllables input data can be tabulated in five tables representing five tones in Mandarin (see Appendix I).

In order to ensure that the checking and punching operation was performed correctly, the whole calculation was divided into six running processes. Five of them were used to run the five tones separately, the last to deal with the grand totals.

2.3.4 Output results

The resultant figures of the six running processes were tabulated in Table 2 indicating the relative frequency distribution of initials and finals in Mandarin.

TABLE 2

A. The output results of initials

| | 1 | 2 | 3 | 4 | 5 | Total |
|-------|--------|--------|--------|--------|-------|--------|
| b | 6211 | 2076 | 9983 | 18863 | 0 | 37133 |
| p | 913 | 3323 | 1089 | 2243 | 0 | 7568 |
| m | 1277 | 8668 | 5372 | 6166 | 6649 | 28132 |
| f | 8170 | 2728 | 3432 | 5055 | 0 | 19385 |
| d | 9782 | 3883 | 4829 | 28517 | 28437 | 75448 |
| t | 12372 | 11243 | 3623 | 3100 | 34 | 30372 |
| n | 10 | 8626 | 4285 | 3470 | 626 | 17017 |
| l | 755 | 12275 | 8632 | 13257 | 7203 | 42122 |
| z | 1027 | 1319 | 4931 | 16259 | 2128 | 25664 |
| c | 1344 | 3694 | 1208 | 2275 | 0 | 8521 |
| s | 7076 | 312 | 2473 | 6402 | 0 | 16253 |
| zh | 13722 | 2180 | 7449 | 14556 | 2153 | 40060 |
| ch | 6325 | 10013 | 1609 | 1632 | 0 | 19579 |
| sh | 14808 | 11977 | 6722 | 25400 | 60 | 58967 |
| r | 44 | 9194 | 507 | 4911 | 0 | 14656 |
| j | 16867 | 5276 | 7810 | 18189 | 0 | 48142 |
| q | 5784 | 8493 | 3432 | 5501 | 0 | 23210 |
| x | 11148 | 8608 | 6865 | 13557 | 0 | 40178 |
| g | 11845 | 7297 | 5721 | 11188 | 0 | 36051 |
| k | 3521 | 163 | 4719 | 6319 | 0 | 14722 |
| h | 3034 | 11804 | 7058 | 15986 | 1 | 37883 |
| ø | 23282 | 20998 | 32579 | 37072 | 0 | 113931 |
| Total | 159307 | 154150 | 134328 | 259918 | 47291 | 754994 |

B. The output results of finals

| | 1 | 2 | 3 | 4 | 5 | Total |
|-----|-------|-------|------|-------|-------|-------|
| a | 13583 | 2810 | 5591 | 8952 | 353 | 31289 |
| o | 584 | 1167 | 39 | 1048 | 0 | 2838 |
| e | 2531 | 8153 | 3030 | 16001 | 40363 | 70078 |
| -i | 1756 | 586 | 1525 | 6766 | 2128 | 12761 |
| v | 6542 | 11148 | 3483 | 19933 | 1 | 41107 |
| er | 0 | 2555 | 677 | 4381 | 0 | 7613 |
| ai | 2374 | 9404 | 3839 | 13236 | 0 | 28853 |
| ei | 1925 | 2366 | 5355 | 3995 | 0 | 13641 |
| ao | 2931 | 1597 | 8072 | 10263 | 34 | 22897 |
| ou | 4822 | 1837 | 3323 | 5531 | 2 | 15515 |
| an | 8995 | 5373 | 3715 | 12579 | 0 | 30662 |
| en | 4885 | 7441 | 5415 | 2386 | 4325 | 24452 |
| ang | 5588 | 4724 | 2433 | 6643 | 59 | 19447 |
| eng | 6977 | 6618 | 2625 | 3867 | 0 | 20087 |
| ong | 12520 | 5713 | 3476 | 4716 | 0 | 26425 |

| | 22182 | 10188 | 17648 | 19830 | 16 | 69864 |
|-------|--------|--------|--------|--------|-------|--------|
| i | 4680 | 510 | 461 | 3501 | 0 | 9152 |
| ia | 0 | 11 | 0 | 0 | 0 | 11 |
| iai | 1932 | 1935 | 4600 | 10686 | 0 | 19153 |
| iao | 2447 | 2368 | 5288 | 4047 | 0 | 14150 |
| ie | 8 | 0 | 0 | 0 | 0 | 8 |
| iou | 981 | 4480 | 9438 | 7814 | 0 | 22713 |
| ian | 7497 | 7812 | 3236 | 11912 | 0 | 30457 |
| in | 6942 | 3671 | 1119 | 2904 | 0 | 14636 |
| iang | 3525 | 2750 | 3949 | 5128 | 0 | 15352 |
| ing | 7369 | 8542 | 2066 | 6201 | 0 | 24178 |
| iong | 278 | 358 | 451 | 2698 | 0 | 3785 |
| u | 6538 | 8609 | 10938 | 23642 | 0 | 49727 |
| ua | 1135 | 1116 | 122 | 2215 | 0 | 4588 |
| uo | 5594 | 8541 | 11247 | 8140 | 10 | 33532 |
| uai | 74 | 156 | 11 | 2617 | 0 | 2858 |
| uei | 2007 | 3589 | 2697 | 11144 | 0 | 19437 |
| uan | 3517 | 2233 | 1871 | 2102 | 0 | 9723 |
| uen | 1366 | 2038 | 537 | 2142 | 0 | 6083 |
| uang | 1561 | 1762 | 1079 | 1188 | 0 | 5590 |
| ueng | 74 | 0 | 1 | 0 | 0 | 75 |
| y | 1356 | 2392 | 3882 | 6473 | 0 | 14103 |
| ye | 578 | 4293 | 155 | 2892 | 0 | 7918 |
| yan | 413 | 4577 | 907 | 1021 | 0 | 6918 |
| yn | 1240 | 727 | 27 | 1324 | 0 | 3318 |
| Total | 159307 | 154150 | 134328 | 259918 | 47291 | 754994 |

2.3.5 Summary

Figure 2 summarizes the whole process of the calculation.

3. Initials

3.1 Relative frequency of initials in Mandarin

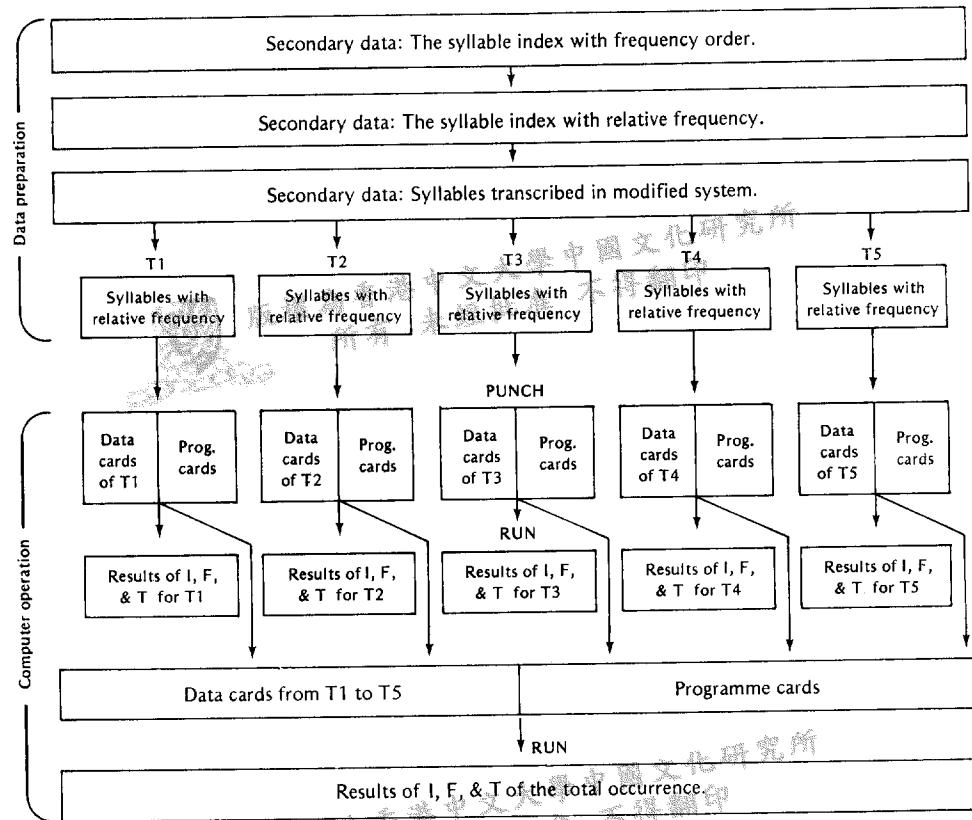
In Mandarin, 15.09 % of the syllables have the zero (\emptyset) initial. The most frequently used initial is /d/ constituting 10% (actually 9.99%) followed by /sh/ constituting 7.81%. The least frequently used initial is /p/ constituting 1.00%. Slightly more common than /p/ are the initials /c/ and /r/ constituting 1.13% and 1.94% respectively (Table 3).

The high frequency of \emptyset (zero) in the result of this survey is due to the fact that the letters "y", "w" in Pin-yin are written as zero initial here. If the "y", "w" are counted as initials (whose percentage is about 73%, see Section 5), only 2% zero initial is left for the main vowels /a/, /e/, and /o/.

The arrangement in order of frequency shows that of the 22 initials (including \emptyset) distinguished:

The first 2 initials make up over 25% of the total.
 The first 6 initials make up over 50% of the total.
 The first 12 initials make up over 75% of the total.

FIGURE 2. THE PROCESS OF CALCULATION



Key: I=Initials; F=Finals; T=Tones.

TABLE 3. RELATIVE FREQUENCY OF INITIALS IN MANDARIN

A. Arranged in phonetic order.

| Initial | Tone | | | | | Total | Percentage |
|---------|--------|--------|--------|--------|---------|--------|------------|
| | 1st | 2nd | 3rd | 4th | Neutral | | |
| b | 6,211 | 2,076 | 9,983 | 18,863 | 0 | 37,133 | 4.92 |
| p | 913 | 3,323 | 1,089 | 2,243 | 0 | 7,568 | 1.00 |
| m | 1,277 | 8,668 | 5,372 | 6,166 | 6,649 | 28,132 | 3.72 |
| f | 8,170 | 2,728 | 3,432 | 5,055 | 0 | 19,385 | 2.57 |
| Total | 16,571 | 16,795 | 19,876 | 32,327 | 6,649 | 92,218 | 12.21% |

TABLE 3 (*cont'd*)

| Initial | Tone | | | | | Total | Percentage |
|----------|---------|---------|---------|---------|---------|---------|------------|
| | 1st | 2nd | 3rd | 4th | Neutral | | |
| d | 9,782 | 3,883 | 4,829 | 28,517 | 28,437 | 75,448 | 9.98 |
| t | 12,372 | 11,243 | 3,623 | 3,100 | 34 | 30,372 | 4.02 |
| n | 10 | 8,626 | 4,285 | 3,470 | 626 | 17,017 | 2.25 |
| l | 755 | 12,275 | 8,632 | 13,257 | 7,203 | 42,122 | 5.58 |
| Total | 22,919 | 36,027 | 21,369 | 48,344 | 36,300 | 164,959 | 21.83% |
| z | 1,027 | 1,319 | 4,931 | 16,259 | 2,128 | 25,664 | 3.40 |
| c | 1,344 | 3,694 | 1,208 | 2,275 | 0 | 8,521 | 1.13 |
| s | 7,066 | 312 | 2,473 | 6,402 | 0 | 16,253 | 2.15 |
| Total | 9,437 | 5,325 | 8,612 | 24,936 | 2,128 | 50,438 | 6.68% |
| zh | 13,722 | 2,180 | 7,449 | 14,556 | 2,153 | 40,060 | 5.31 |
| ch | 6,325 | 10,013 | 1,609 | 1,632 | 0 | 19,579 | 2.59 |
| sh | 14,808 | 11,977 | 6,722 | 25,400 | 60 | 58,967 | 7.81 |
| r | 44 | 9,194 | 507 | 4,911 | 0 | 14,656 | 1.94 |
| Total | 34,899 | 33,364 | 16,287 | 46,499 | 2,213 | 133,262 | 17.65% |
| j | 16,867 | 5,276 | 7,810 | 18,189 | 0 | 48,142 | 6.38 |
| q | 5,784 | 8,493 | 3,432 | 5,501 | 0 | 23,210 | 3.07 |
| x | 11,148 | 8,608 | 6,865 | 13,557 | 0 | 40,178 | 5.32 |
| Total | 33,799 | 22,377 | 18,107 | 37,247 | 0 | 111,530 | 14.77% |
| g | 11,845 | 7,297 | 5,721 | 11,188 | 0 | 36,051 | 4.77 |
| k | 3,521 | 163 | 4,719 | 6,319 | 0 | 14,722 | 1.95 |
| h | 3,034 | 11,804 | 7,058 | 15,986 | 1 | 37,883 | 5.02 |
| Ø | 23,282 | 20,998 | 32,579 | 37,072 | 0 | 113,931 | 15.09 |
| Total | 41,682 | 40,262 | 50,077 | 70,547 | 1 | 202,587 | 26.83% |
| G. total | 159,232 | 154,150 | 134,328 | 259,918 | 47,291 | 754,994 | 99.97% |

B. Arranged in order of frequency.

| Initial | Occurrence | Percentage | Initial | Occurrence | Percentage |
|---------|------------|------------|---------|------------|------------|
| Ø | 113,931 | 15.09 | m | 28,132 | 3.72 |
| d | 75,448 | 9.99 | z | 25,664 | 3.40 |
| sh | 58,967 | 7.81 | q | 23,210 | 3.07 |
| j | 48,142 | 6.38 | ch | 19,579 | 2.59 |
| l | 42,122 | 5.58 | f | 19,385 | 2.57 |
| x | 40,178 | 5.32 | n | 17,017 | 2.25 |
| zh | 40,060 | 5.31 | s | 16,253 | 2.15 |
| h | 37,883 | 5.02 | k | 14,722 | 1.95 |
| b | 37,133 | 4.92 | r | 14,656 | 1.94 |
| g | 36,051 | 4.77 | c | 8,521 | 1.13 |
| t | 30,372 | 4.02 | p | 7,568 | 1.00 |

3.2 Compared with the report reviewed

These results are in agreement with those quoted in the review in *Yu-wen-hui-pian* of the work done in Mainland China. The researchers in Mainland China found the initial /d/ appeared most frequently (7.83 %) and the initial /p/ least frequently (0.35 %).¹³

3.3 Compared with the similar investigation in Cantonese

Comparison of the above results with frequency of initials in Cantonese¹⁴ shows that /g/ (13.6 %) is the most common initial in Cantonese whereas /d/ (9.99 %) is the most common in Mandarin. This is a result of the frequent occurrence of a suffix pronounced as ge 嘅 in Cantonese and as dé 的 in Mandarin. However, in both Mandarin and Cantonese /p/ is found to be the least frequently used initial. (In Mandarin 1.00 %; in Cantonese 0.53 %.)

3.4 Tabulated in terms of place features

The distribution frequency of initials can be tabulated in terms of their place and manner features. In terms of place features, the dentals rank highest with 21.84 %, followed by the retroflexes with 17.65 %, zero with 15.09 %, dental sibilants with 14.77 %, and labials with 12.21 %. The remainder is occupied by the gutturals (11.74 %) and palatals (6.68 %). (Table 4A, Figure 3A.)

TABLE 4. RELATIVE FREQUENCY DISTRIBUTION OF INITIAL CLASSES

A. Classified by Place Features.

| Initial class | Members | Totals | Percentage |
|------------------|---------------|---------|------------|
| Zero | Ø | 113,931 | 15.09 |
| Labials | b, p, m, f | 92,218 | 12.21 |
| Dentals | d, t, n, l | 164,959 | 21.84 |
| Dental Sibilants | j, q, x | 111,530 | 14.77 |
| Retroflexes | zh, ch, sh, r | 133,262 | 17.65 |
| Palatals | z, c, s | 50,438 | 6.68 |
| Gutturals | g, k, h | 88,656 | 11.74 |
| Total | 22 | 754,994 | 99.98 |

B. Classified by Manner Features.

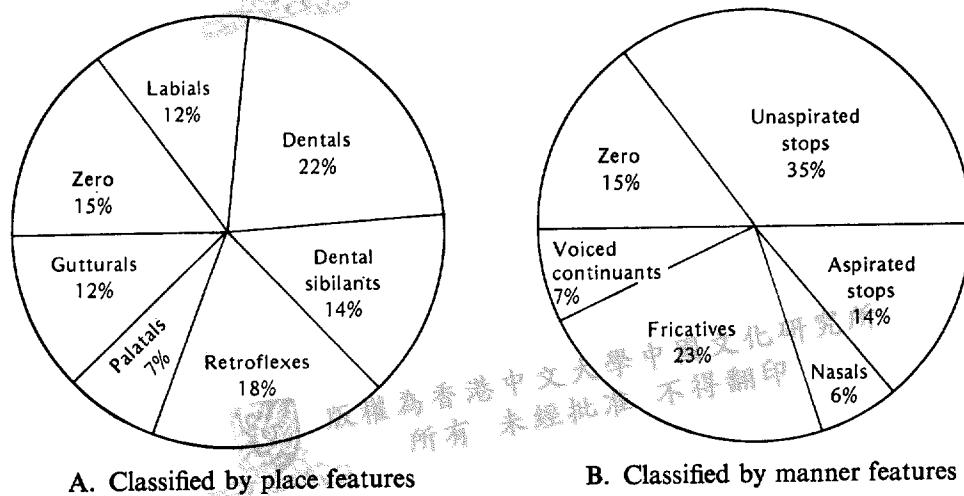
| Initial class | Members | Totals | Percentage |
|--------------------|-------------------|---------|------------|
| Zero | Ø | 113,931 | 15.09 |
| Unaspirated stops | b, d, j, zh, z, g | 262,498 | 34.77 |
| Aspirated stops | p, t, q, ch, c, k | 103,972 | 13.77 |
| Nasals | m, n | 45,149 | 5.98 |
| Fricatives | f, x, sh, s, h | 172,666 | 22.87 |
| Voiced continuants | l, r | 56,778 | 7.52 |
| Total | 22 | 754,994 | 100.00 |

¹³ Zheng's review in *op. cit.*, p. 39.

¹⁴ With reference to my M. Phil. thesis presented to The Chinese University of Hong Kong in 1973, V. I.

FIGURE 3. DISTRIBUTION OF INITIAL CLASSES

Total: 754,994



3.5 The importance of sibilant sounds in Mandarin and Cantonese

The term "sibilant sounds" is used here to indicate dental sibilants, retroflexes, and palatals. Normally they are the most difficult to pronounce for non-Mandarin speakers, especially native Cantonese speakers, and the results show that these sibilants form approximately 40% of the total sample. Thus, it is obvious that, for a student to be competent in speaking Mandarin, much time must be spent in mastering these initials.

Among these ten initials /sh/ is the most frequently used constituting 7.81%. If this initial is mispronounced, 781 words in every 10,000 will be inaccurate and difficult to comprehend. Similarly mispronunciation of /zh/ will result in 531 erroneous words in every 10,000.

The sibilant sounds also constitute a large proportion (33.7%)¹⁵ of the initial found in Cantonese. Hence it appears that in Chinese, at least in Mandarin and Cantonese, the sibilant sounds are of the utmost importance.

3.6 Tabulated in terms of manner features

In terms of manner features, however, the stops as a class constitute 48.54% (unaspirated stops 34.77%, aspirated stops 13.77%), followed by fricatives 22.87%, zero 15.09%, voiced continuants 7.52%, and finally nasals 5.98%. (Table 4B, Figure 3B.)

3.7 The commonest word *dé* 的 in Mandarin

The word *dé* 的 is the most frequently used word in Mandarin and as such constitutes 26,738¹⁶ of the 75,448 characters having the /d/ initial (35%). This is why the unaspirated stops and labials rank highest among the manner features and place features respectively.

¹⁵ Ibid.

¹⁶ See Appendix II.

3.8 A proposal for encoding Mandarin initials

The following table sets out one viable method of encoding Mandarin initials based on the work of Mr. Wong.¹⁷

TABLE 5. RELATIVE PROBABILITY DISTRIBUTION OF INITIALS IN MANDARIN

| <i>Initials</i> | <i>Probability %</i> | <i>Binary coding</i> | <i>Initials</i> | <i>Probability %</i> | <i>Binary coding</i> |
|-----------------|----------------------|----------------------|-----------------|----------------------|----------------------|
| Ø | 0.1507 | 000 | t | 0.0390 | 11000 |
| d | 0.0998 | 001 | z | 0.0339 | 11001 |
| sh | 0.0780 | 0100 | q | 0.0307 | 11010 |
| j | 0.0637 | 0101 | ch | 0.0258 | 11011 |
| l | 0.0557 | 0110 | f | 0.0256 | 11100 |
| x | 0.0531 | 0111 | n | 0.0225 | 11101 |
| zh | 0.0530 | 1000 | s | 0.0215 | 111100 |
| h | 0.0501 | 1001 | k | 0.0195 | 111101 |
| b | 0.0499 | 1010 | r | 0.0194 | 111110 |
| g | 0.0477 | 10110 | c | 0.0113 | 1111110 |
| m | 0.0399 | 10111 | p | 0.0100 | 1111111 |

4. Finals

4.1 Relative frequency of Mandarin finals by traditional classification

Traditionally, finals in Chinese syllables can be classified into four categories, namely, kai-kou-hu, qi-chi-hu, he-kou-hu, and cuo-kou-hu.¹⁸ Of these four categories of final in Mandarin, the final kai-kou-hu occurs in 48.68% of the sample; the qi-chi-hu 29.58%; the he-kou-hu 17.44%; and cuo-kou-hu 4.28% of the same sample (Table 6, Fig. 4).

TABLE 6. RELATIVE FREQUENCY OF FINALS IN MANDARIN

A. Analysed in modified system, arranged in phonetic order.

| <i>Final</i> | <i>1st</i> | <i>2nd</i> | <i>Tone 3rd</i> | <i>4th</i> | <i>Neutral</i> | <i>Total</i> | <i>Percentage</i> |
|--------------|------------|------------|-----------------|------------|----------------|--------------|-------------------|
| a | 13,583 | 2,810 | 5,591 | 8,952 | 353 | 31,289 | 4.14 |
| o | 584 | 1,167 | 39 | 1,048 | 0 | 2,838 | 0.38 |
| e | 2,531 | 8,153 | 3,030 | 16,001 | 40,363 | 70,078 | 9.28 |
| -i | 1,756 | 586 | 1,525 | 6,766 | 2,128 | 12,761 | 1.69 |
| v | 6,542 | 11,148 | 3,483 | 19,933 | 1 | 41,107 | 5.44 |
| er | 0 | 2,555 | 677 | 4,381 | 0 | 7,613 | 1.01 |

¹⁷ See § 4.6.

¹⁸ kai-kou-hu 開口呼: finals that do not include /i/, /u/, /ü/ vowels or medials.

qi-chi-hu 齊齒呼: finals that begin with unrounded high front vowel or medial /i/;

he-kou-hu 合口呼: finals formed by a rounded back vowel or medial /u/;

cuo-kou-hu 撮口呼: finals that contain a rounded front vowel or medial /ü/.

TABLE 6 (cont'd)

| Final | 1st | 2nd | Tone 3rd | 4th | Neutral | Total | Percentage |
|----------|---------|---------|-------------|---------|---------|---------|------------|
| ai | 2,374 | 9,404 | 3,839 | 13,236 | 0 | 28,853 | 3.82 |
| ei | 1,925 | 2,366 | 5,355 | 3,995 | 0 | 13,641 | 1.81 |
| ao | 2,931 | 1,597 | 8,072 | 10,263 | 34 | 22,897 | 3.03 |
| ou | 4,822 | 1,837 | 3,323 | 5,531 | 2 | 15,515 | 2.05 |
| an | 8,995 | 5,373 | 3,715 | 12,579 | 0 | 30,662 | 4.06 |
| en | 4,885 | 7,441 | 5,415 | 2,386 | 4,325 | 24,452 | 3.24 |
| ang | 5,588 | 4,724 | 2,433 | 6,643 | 59 | 19,447 | 2.57 |
| eng | 6,977 | 6,618 | 2,625 | 3,867 | 0 | 20,087 | 2.66 |
| ong | 12,520 | 5,713 | 3,476 | 4,716 | 0 | 26,425 | 3.50 |
| Total | 76,013 | 71,492 | 52,598 | 120,297 | 47,265 | 367,665 | 48.68% |
| i | 22,182 | 10,188 | 17,648 | 19,830 | 16 | 69,864 | 9.25 |
| ia | 4,680 | 510 | 461 | 3,501 | 0 | 9,152 | 1.21 |
| iai | 0 | 11 | 0 | 0 | 0 | 11 | 0.001 |
| iao | 1,932 | 1,935 | 4,600 | 10,686 | 0 | 19,153 | 2.54 |
| ie | 2,447 | 2,368 | 5,288 | 4,047 | 0 | 14,150 | 1.87 |
| io | 8 | 0 | 0 | 0 | 0 | 8 | 0.001 |
| iou | 981 | 4,480 | 9,438 | 7,814 | 0 | 22,713 | 3.01 |
| ian | 7,497 | 7,812 | 3,236 | 11,912 | 0 | 30,457 | 4.03 |
| in | 6,942 | 3,671 | 1,119 | 2,904 | 0 | 14,636 | 1.94 |
| iang | 3,525 | 2,750 | 3,949 | 5,128 | 0 | 15,352 | 2.03 |
| ing | 7,369 | 8,542 | 2,066 | 6,201 | 0 | 24,178 | 3.20 |
| iong | 278 | 358 | 451 | 2,698 | 0 | 3,785 | 0.50 |
| Total | 57,841 | 42,625 | 48,256 | 74,721 | 16 | 223,459 | 29.58% |
| u | 6,538 | 8,609 | 10,938 | 23,642 | 0 | 49,727 | 6.59 |
| ua | 1,135 | 1,116 | 122 | 2,215 | 0 | 4,588 | 0.61 |
| uo | 5,594 | 8,541 | 11,247 | 8,140 | 10 | 33,532 | 4.44 |
| uai | 74 | 156 | 11 | 2,617 | 0 | 2,858 | 0.38 |
| uei | 2,007 | 3,589 | 2,697 | 11,144 | 0 | 19,437 | 2.57 |
| uan | 3,517 | 2,233 | 1,871 | 2,102 | 0 | 9,723 | 1.29 |
| uen | 1,366 | 2,038 | 537 | 2,142 | 0 | 6,083 | 0.81 |
| uang | 1,561 | 1,762 | 1,079 | 1,188 | 0 | 5,590 | 0.74 |
| ueng | 74 | 0 | 1 | 0 | 0 | 75 | 0.01 |
| Total | 21,866 | 28,044 | 28,503 | 53,190 | 10 | 131,613 | 17.44% |
| y | 1,356 | 2,392 | 3,882 | 6,473 | 0 | 14,103 | 1.87 |
| ye | 578 | 4,293 | 155 | 2,892 | 0 | 7,918 | 1.05 |
| yan | 413 | 4,577 | 907 | 1,021 | 0 | 6,918 | 0.92 |
| yn | 1,240 | 727 | 27 | 1,324 | 0 | 3,318 | 0.44 |
| Total | 3,587 | 11,989 | 4,971 | 11,710 | 0 | 32,257 | 4.28% |
| G. total | 159,307 | 154,150 | 134,328 | 259,918 | 47,291 | 754,994 | 99.98% |

B. Analysed in modified system, arranged in order of frequency.

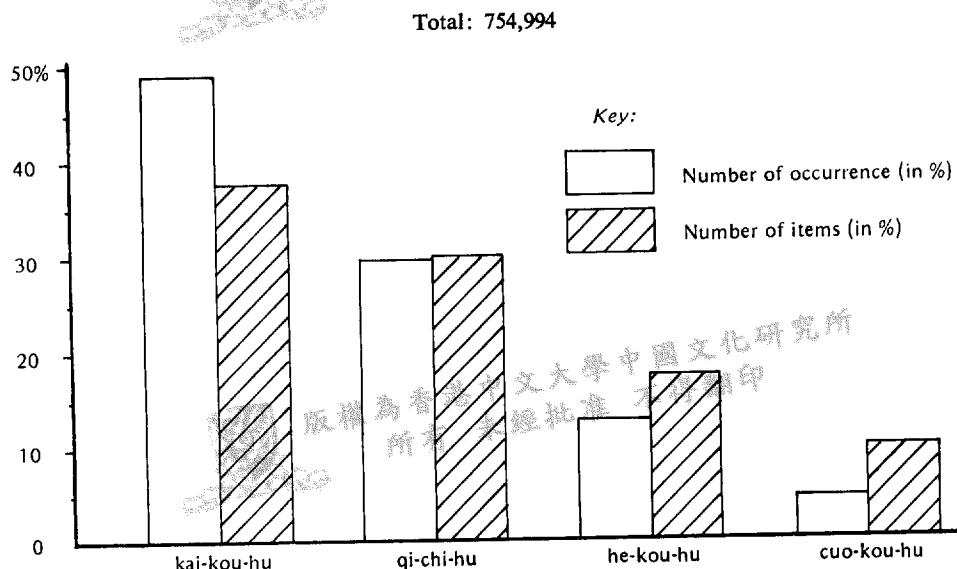
| <i>Final</i> | <i>Occurrence</i> | <i>Percentage</i> | <i>Final</i> | <i>Occurrence</i> | <i>Percentage</i> |
|--------------|-------------------|-------------------|--------------|-------------------|-------------------|
| e | 70,078 | 9.28 | in | 14,636 | 1.94 |
| i | 69,864 | 9.25 | ie | 14,150 | 1.87 |
| u | 49,727 | 6.59 | y | 14,103 | 1.87 |
| v | 41,107 | 5.44 | ei | 13,641 | 1.81 |
| uo | 33,532 | 4.44 | -i | 12,761 | 1.69 |
| a | 31,289 | 4.14 | uan | 9,723 | 1.29 |
| an | 30,662 | 4.06 | ia | 9,152 | 1.21 |
| ian | 30,457 | 4.03 | ye | 7,918 | 1.05 |
| ai | 28,853 | 3.82 | er | 7,613 | 1.01 |
| ong | 26,425 | 3.50 | yan | 6,918 | 0.92 |
| en | 24,452 | 3.24 | uen | 6,083 | 0.81 |
| ing | 24,178 | 3.20 | uang | 5,590 | 0.74 |
| ao | 22,897 | 3.03 | ua | 4,588 | 0.61 |
| iou | 22,713 | 3.01 | iong | 3,785 | 0.50 |
| eng | 20,087 | 2.66 | yn | 3,318 | 0.44 |
| uei | 19,437 | 2.57 | uai | 2,858 | 0.38 |
| ang | 19,447 | 2.57 | o | 2,838 | 0.38 |
| iao | 19,153 | 2.54 | ueng | 75 | 0.01 |
| ou | 15,515 | 2.05 | iai | 11 | 0.001 |
| iang | 15,352 | 2.03 | io | 8 | 0.001 |

C. Analysed in MPL, arranged in order of frequency.

| <i>Final</i> | <i>Occurrence</i> | <i>Percentage</i> | <i>Final</i> | <i>Occurrence</i> | <i>Percentage</i> |
|--------------|-------------------|-------------------|--------------|-------------------|-------------------|
| ㄤ | 70,078 | 9.28 | ㄧㄣ | 14,636 | 1.94 |
| ㄧ | 69,864 | 9.25 | ㄧㄢ | 14,150 | 1.87 |
| ㄨ | 49,727 | 6.59 | ㄩ | 14,103 | 1.87 |
| (ㄓ) | 41,107 | 5.44 | ㄟ | 13,641 | 1.81 |
| ㄨㄤ | 33,532 | 4.44 | (ㄔ) ㄩㄤ | 12,761 | 1.69 |
| ㄚ | 31,289 | 4.14 | ㄨㄢ | 9,723 | 1.29 |
| ㄩ | 30,662 | 4.06 | ㄧㄚ | 9,152 | 1.21 |
| ㄧㄢ | 30,457 | 4.03 | ㄩㄢ | 7,918 | 1.05 |
| ㄞ | 28,853 | 3.82 | ㄦ | 7,613 | 1.01 |
| ㄨㄥ | 26,500* | 3.51 | ㄩㄦ | 6,918 | 0.92 |
| ㄣ | 24,452 | 3.24 | ㄨㄣ | 6,083 | 0.81 |
| ㄧㄥ | 24,178 | 3.20 | ㄨㄤ | 5,590 | 0.74 |
| ㄾ | 22,897 | 3.03 | ㄨㄚ | 4,588 | 0.61 |
| ㄧㄡ | 22,713 | 3.01 | ㄩㄤ | 3,785 | 0.50 |
| ㄥ | 20,087 | 2.66 | ㄩㄣ | 3,318 | 0.44 |
| ㄨㄟ | 19,437 | 2.57 | ㄨㄤ | 2,858 | 0.38 |
| ㄤ | 19,447 | 2.57 | ㄤ | 2,838 | 0.38 |
| ㄧㄤ | 19,153 | 2.54 | ㄧㄤ | 11 | 0.001 |
| ㄡ | 15,515 | 2.05 | ㄧㄤ | 8 | 0.001 |
| ㄧㄤ | 15,352 | 2.03 | | | |

* $26,500 = 26,425$ (ong) + 75 (ueng)

FIGURE 4. RELATIVE FREQUENCY DISTRIBUTION OF FINAL CLASSES
BY TRADITIONAL CLASSIFICATION



4.2 Analysis of the frequency of Mandarin finals

The most frequent single final in Mandarin is /e/ occurring as 9.28% of the sample, followed by /i/ 9.25%, /u/ 6.59%, /v/ [x] 5.44%, /uo/ 4.44%, /a/ 4.14%, and those least frequently used are /io/ and /iai/, each with a sample frequency of only 0.001%. Only slightly more common than /io/ and /iai/ are the finals /ueng/, /o/, and /uai/, constituting 0.01%, 0.38%, and 0.38% of the sample respectively (Table 6B).

The arrangement in order of frequency indicates that, of the 40 finals in Mandarin which have been analysed: (a) The first 3 finals make up over 25% of the total; (b) The first 9 finals make up over 50% of the total; and (c) The first 18 finals make up over 75% of the total.

4.3 Comparison of these results with the work done in Mainland China

Considered on a percentile basis, the results given in this paper and those quoted from the previously mentioned review in *Yu-wen hui-pian* of similar work carried out in Mainland China indicate a similar pattern of distribution. In this review, the /e/, /i/, and /u/ were also reported as being the most frequently used finals with quoted percentages of 6.68%, 5.31%, and 3.77% respectively.¹⁹

The total percentage of the above three finals as generated from 50,000 words is only 15% of the sample, and is 10% less than the total percentage of the respective finals reported in this study, as derived from a 750,000 word sample. The increase now demonstrated derives from use of a greatly enlarged sample.

The least commonly used finals reported in the Mainland China study are /ei/, /o/, /uen/, and /ia/ in descending order of frequency, constituting 0.7%, 0.44%, 0.11%, and 0.03%, whereas this study shows the least commonly used four finals to be /o/, /ueng/, /iai/, and /io/.

¹⁹ Zheng's review in *op. cit.*, p. 39.

constituting as they do 0.38%, 0.01%, 0.001%, and 0.001% of the sample. The total percentage of the former is 1.28% while the latter is only 0.4%.

4.4 The Commonly used characters with /e/, /i/ or /u/ finals (analysed in the modified system)

According to the report prepared in the Republic of China (see §1.2), the word *dé* 的 constitutes 26,738 of the 75,448 characters and ranks highest as mentioned above (see §3.7). Other frequently used words (over 1,000 occurrences in the 750,000 character sample) with /e/ vowel are *lè* 了 (7,176), *zhè* 這 (3,967), *gè* 個 (3,776), *kě* 可 (2,426), *mè* 麼 (1,998), *zhè* 着 (1,573), *shé* 甚 (1,426), *kè* 課 (1,310), *gè* 各 (1,228), *dé* 得 (1,064). The total occurrence of these characters constitutes 70% of the total occurrence of the final /e/.

As for those words containing /i/ or /u/, the analysis is as follows:

| | | | | |
|-------|---------------------|---------------------|----------------------|----------------------|
| /i/ : | <i>i</i> 一 (14,147) | <i>yǐ</i> 以 (3,500) | <i>dì</i> 地 (2,838) | <i>dì</i> 第 (2,517) |
| | <i>nǐ</i> 你 (1,981) | <i>lǐ</i> 裏 (1,981) | <i>qǐ</i> 起 (1,584) | <i>qì</i> 氣 (1,113) |
| | <i>lì</i> 力 (1,074) | <i>lì</i> 立 (1,021) | | |
| /u/ : | <i>bù</i> 不 (6,634) | <i>wǔ</i> 五 (2,800) | <i>chū</i> 出 (1,944) | <i>tú</i> 圖 (1,518) |
| | <i>bù</i> 部 (1,475) | <i>rú</i> 如 (1,208) | <i>wù</i> 物 (1,134) | <i>zhǔ</i> 主 (1,121) |
| | <i>lù</i> 路 (1,033) | | | |

4.5 The relative frequency distribution of ×L

A major difference between the results reported in Mainland China and the results of this present study is the observed frequency of the final ×L.²⁰

It ranks fourth in the former constituting 2.55% in 50,000 but tenth in the latter, constituting 3.51% in 750,000 (including 0.01% of /ueng/).

If one considers the final /ong/, several commonly used words appear such as:

| | | | |
|------------------------|-----------------------|-----------------------|------------------------|
| <i>zhōng</i> 中 (3,905) | <i>gōng</i> 公 (1,537) | <i>dōng</i> 東 (1,535) | <i>zhǒng</i> 種 (1,500) |
| <i>tóng</i> 同 (1,475) | <i>dòng</i> 動 (1,455) | <i>gōng</i> 工 (1,165) | <i>cóng</i> 從 (1,113) |

It was found in this survey, that /uo/, /a/, /an/, /ian/, and /ai/ rank higher than /ong/.²¹ They occur more frequently in words like:

| | | | | |
|---------|-----------------------|------------------------------------|-----------------------|-----------------------|
| /uo/ : | <i>wǒ</i> 我 (7,461) | <i>guó</i> 國 (6,107) | <i>shuō</i> 說 (2,737) | <i>duō</i> 多 (2,159) |
| | <i>suǒ</i> 所 (1,575) | | | |
| /a/ : | <i>dà</i> 大 (4,810) | <i>tā</i> 他 (4,505) | <i>nà</i> 那 (1,698) | <i>fā</i> 發 (1,696) |
| | <i>bǎ</i> 把 (1,692) | <i>fǎ</i> 法 (1,505) | <i>bā</i> 八 (1,457) | |
| /an/ : | <i>sān</i> 三 (4,006) | <i>hán</i> 和 (3,519) ²² | <i>nán</i> 南 (1,545) | <i>shān</i> 山 (1,335) |
| | <i>rán</i> 然 (1,183) | | | |
| /ian/ : | <i>tiān</i> 天 (3,280) | <i>nián</i> 年 (2,790) | <i>miàn</i> 面 (1,800) | <i>diàn</i> 電 (1,131) |
| | <i>qián</i> 前 (1,065) | | | |
| /ai/ : | <i>zài</i> 在 (6,631) | <i>lái</i> 來 (4,357) | <i>hǎi</i> 海 (1,389) | <i>kāi</i> 開 (1,297) |
| | <i>hái</i> 還 (1,154) | <i>tài</i> 太 (1,005) | | |

²⁰ The report discussed in the review used the Mandarin Phonetic Letters (see Table 6C for the relative frequency of Mandarin finals in MPL). The final ×L in MPL consists of finals /ong/ and /ueng/ in the Pinyin system. Of these two finals, /ueng/ is rarely used, it only occurs 75 times within 750,000 characters.

²¹ In the present discussion I have neglected the fourth rank /v/, since the /v/ [v] and /-i/ [z] are not marked in MPL.

²² This frequently used word is pronounced as *hán* and is used both as conjunction and preposition in Taiwan. However, in Mainland China it is pronounced as *hé* and used only as a conjunction (according to the text *Elementary Chinese* published in Peking 1972).

It is worthy of note that in the above survey, the /ong/ has a frequency higher than those finals which form part of such frequently used words as: wǒ (I, me), tā (he), sān (three), tiān (sky), zài (in, at), lái (come).

The answer to this paradox did not become evident until I discovered that half of the primary data which the researchers had used was based on the following three essays:²³

1. “On the Profound Knowledge and Morality of Being a Communist” 論共產黨員的修養: 22,882 words.
 2. “The Greatest Friendship” 最偉大的友誼: 977 words.
 3. “Anti-liberalism” 反對自由主義: 688 words.

In these articles, those characters with /ong/ like zhōng 中, gōng 共, dōng 東, gōng 工, gōng 公, dòng 動, tóng 同 are extensively used as the components of expressions frequently used in Chinese Communist society. Common examples are Zhōng-guó (China), Zhōng-guó-rén (Chinese), Gōng-chán-dǎng (Communist), dōng-fāng (east), gōng-rén (worker), yùn-dòng (movement), tóng-zì (comrade), gōng-she (commune). The final /ong/ is obviously more useful in the speech and writings of Mainland China.

Unfortunately the frequency of those finals such as /uo/, /a/, /an/, /ian/, and /ai/ are not assessable from a study of the review.

The occurrence of *hán* is 3,519, or 0.46% of the sample. If for this character the *hé* pronunciation is adopted to replace *hán*, the relative frequency position of the final /an/ will be reduced from seventh to ninth position (see Table 6B, $4.06 - 0.46 = 3.60$). At the same time the most frequently used final /e/ will increase to 9.74% ($9.28 + 0.46 = 9.74$).

This replacement of hán by hé will produce changes in the relative occurrence of vowels and letters. It will even change the relative frequency order of times and letters in MPL (but not the relative frequency order of vowels and letters in IPA, Pin-yin or Modified System).

In terms of the relative frequency of rimes in MPL, the “*ㄔ*” and “*ㄎ*” will switch position (see Table 12). The first rime “*ㄔ*” will revert to third position [a decrease of $0.46\% (10.30 - 0.46 = 9.84)$]; whereas the rime “*ㄎ*” increased by 0.46% will advance from third to first position ($9.28 + 0.46 = 10.74$).

In the relative frequency of Mandarin Phonetic letters, the “𠂇” will be downgraded from third to fifth position ($77,760 - 3,519 = 74,241$) and the “𠂊” remains unchanged ($70,078 + 3,519 = 73,597$) (Table 19).

4.6 A Proposal for encoding Mandarin finals

Table 7 sets out a viable method of encoding Mandarin finals which is based on the work of Mr. Wong Kar-lung. Detailed discussion of the encoding can be found in his M. Phil. thesis "Phonetic Encoding of Chinese Characters" (1975) in the library of The Chinese University of Hong Kong.

However, two rarely used finals /iai/ and /io/ are not mentioned because they were only noted after the thesis had been completed. In addition, minor corrections of the data had been made on the output result of the thesis. Therefore, the probability (in percentage) listed in this present study differs from that given in the above-mentioned thesis. But it should be noted that this difference can be considered as minimal and unlikely to affect the order of the finals in terms of frequency.

TABLE 7. RELATIVE PROBABILITY DISTRIBUTION OF FINALS IN MANDARIN

| <i>Finals</i> | <i>Probability</i> | <i>Binary coding</i> | <i>Finals</i> | <i>Probability</i> | <i>Binary coding</i> |
|---------------|--------------------|----------------------|---------------|--------------------|----------------------|
| e | 0.0953 | 000 | iang | 0.0203 | 110101 |
| i | 0.0912 | 001 | in | 0.0194 | 110110 |
| u | 0.0658 | 0100 | ie | 0.0187 | 110111 |
| v | 0.0544 | 0101 | y | 0.0187 | 111000 |
| uo | 0.0444 | 01100 | ei | 0.0180 | 111001 |
| a | 0.0414 | 01101 | -i | 0.0169 | 111010 |
| an | 0.0406 | 01110 | uan | 0.0129 | 1110110 |
| ian | 0.0403 | 01111 | ia | 0.0121 | 1110111 |
| ai | 0.0381 | 10000 | ye | 0.0105 | 1111000 |
| ong | 0.0350 | 10001 | er | 0.0101 | 1111001 |
| en | 0.0323 | 10010 | yan | 0.0092 | 1111010 |
| ing | 0.0320 | 10011 | uen | 0.0080 | 1111011 |
| ao | 0.0303 | 10100 | uang | 0.0074 | 1111100 |
| iou | 0.0300 | 10101 | ua | 0.0061 | 1111101 |
| eng | 0.0266 | 10110 | iong | 0.0050 | 11111100 |
| uei | 0.0257 | 10111 | yn | 0.0044 | 11111101 |
| ang | 0.0257 | 11000 | uai | 0.0038 | 11111110 |
| iao | 0.0253 | 11001 | o | 0.0038 | 111111110 |
| ou | 0.0205 | 110100 | ueng | 0.0001 | 111111111 |

4.7 Relative frequency of the form types in Mandarin finals

Finals in Mandarin can be further analysed into medials, vowels, and endings. In terms of their combinations, they may be classified into four form types as follows:

1. V: Finals with a single vowel, e.g. chá (tea).
2. MV: Finals with a medial plus a vowel, e.g. shuō (to speak).
3. VE: Finals with a vowel plus an ending, e.g. kàn (to see).
4. MVE: Finals with a medial and a vowel plus an ending, e.g. biǎo (watch).

The analysed occurrence of these four forms is tabulated according to the modified system in Table 8.

From the observed results, there was an obvious difference in frequency of the various

form types, with emphasis toward the occurrence of the two form types without medials, the V and VE. The ratio of total occurrence of these two types, compared with the other two with medials, the MV and MVE, is approximately 2.5 to 1. Again, those containing endings, the VE and MVE, and those without endings, the V and MV, both constituted about half of the total character sample.

It would appear that the most favoured final form type in Mandarin is V (Table 8).

TABLE 8. RELATIVE DISTRIBUTION OF THE FOUR FORM TYPES OF MANDARIN FINALS

A. Arranged in order of frequency (Total: 754,994).

| <i>I</i> <i>V</i> | <i>2</i> <i>MV</i> | <i>3</i> <i>VE</i> | <i>4</i> <i>MVE</i> |
|----------------------|-----------------------|-----------------------|------------------------|
| e 70,078 | uo 33,532 | an 30,662 | ian 30,457 |
| i 69,864 | ie 14,150 | ai 28,853 | iou 22,713 |
| u 49,727 | ia 9,152 | ong 26,425 | uei 19,437 |
| v 41,107 | ye 7,918 | en 24,452 | iao 19,153 |
| a 31,289 | ua 4,588 | ing 24,178 | iang 15,352 |
| y 14,103 | io 8 | ao 22,897 | uan 9,723 |
| -i 12,761 | | eng 20,087 | yan 6,918 |
| o 2,838 | | ang 19,447 | uen 6,083 |
| | | ou 15,515 | uang 5,590 |
| | | in 14,636 | iong 3,785 |
| | | ei 13,641 | yn 3,318 |
| | | er 7,613 | uai 2,858 |
| | | | ueng 75 |
| | | | iai 11 |
| 291,767 | 69,348 | 248,406 | 145,473 |
| 38.64% | 9.19% | 32.90% | 19.26% |

B. Summary

| | <i>Final form type</i> | <i>Occurrence</i> | <i>Percentage</i> |
|-------|------------------------|-------------------|-------------------|
| 1 | V | 291,767 | 38.64 |
| 2 | MV | 69,348 | 9.19 |
| 3 | VE | 248,406 | 32.90 |
| 4 | MVE | 145,473 | 19.26 |
| Total | 4 | 754,994 | 99.99% |

The relative frequencies of initials and finals in Mandarin, which have been discussed above, are based on the output results listed in 2.3.4. From 4.8 onward, some calculation is needed to derive the relative frequency of final components: medials, vowels, and endings. The figures used in the calculations are also based on the previously mentioned output results.

4.8 *Medials*

The syllables without any medials (zero medial Ø) constitute 71.98% of the total character

sample, as compared to 15.20% for the syllables with medial [-i-] and 10.85% for the medial [-u-].²⁴ Syllables with medial [-y-] occupy the remaining 1.97% (see Table 9, Fig. 5).

The low frequency of syllables with medial [-y-] is due to the fact that only two finals contain the medial [-y-], ye and yan, and that they rank 28, 30 respectively in the total of 40 in the order of the relative frequency of finals.

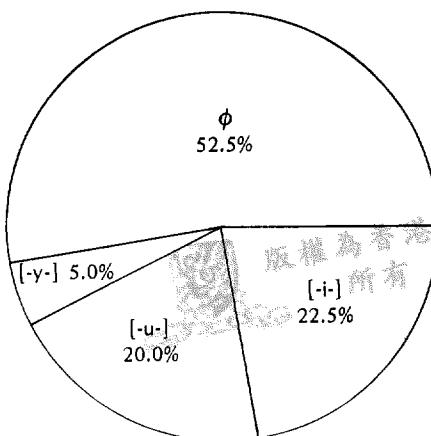
Syllables without any medials (with 71.98%) are far more frequent than those containing medials, which together account for about 28% of the total number of sample character. The ratio between the number of syllables without any medials and those with [-i-], [-u-], [-y-] is approximately 3 to 1 (Fig. 5B).

TABLE 9. DISTRIBUTION OF MANDARIN MEDIALS IN THE IPA SYSTEM

| Medials | Items | | Occurrence | |
|---------|--------|------------|------------|------------|
| | Number | Percentage | Number | Percentage |
| Ø | 21 | 52.5 | 543,491 | 71.98 |
| [-i-] | 9 | 22.5 | 114,781 | 15.20 |
| [-u-] | 8 | 20.0 | 81,886 | 10.85 |
| [-y-] | 2 | 5.0 | 18,436 | 1.97 |
| Total | 40 | 100.0% | 754,994 | 100.00% |

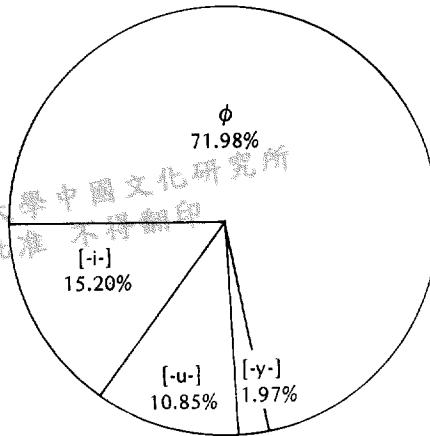
FIGURE 5. DISTRIBUTION OF MANDARIN MEDIALS

Total: 40



A. Items

Total: 754,994



B. Occurrence

4.9 Vowels (and rimes in MPL)

4.9.1 Relative frequency of Mandarin vowels analysed in IPA

According to Y. R. Chao's *Grammar of Spoken Chinese*,²⁵ there are fifteen vowels in Mandarin if analysis is based on the IPA system. Among these vowels, the first four most

²⁴ The relative frequency of finals which begin with /i/, /u/ or /y/ is discussed in § 4.1.

²⁵ *Op. cit.*, p. 24.

frequently used are unrounded vowels [i], [ɛ], [a], and [ɑ] which together account for about 50% of the sample. Individually, the respective percentages are 14.39, 13.72, 10.91, and 10.47, whereas those least frequently used are the [y] and [z] with respective frequencies of only 2.31% and 1.69% (Table 10A).

TABLE 10A. RELATIVE FREQUENCY OF MANDARIN VOWELS IN THE IPA SYSTEM, IN ORDER OF FREQUENCY
(Total: 754,994)

| Vowel | Open | Ending | | | | | Total % |
|---------|-------|--------|------|------|------|------|---------|
| | | -i | -ɪ | -u | -ʊ | -ŋ | |
| i | 9.25 | | | | 1.94 | 3.20 | 14.39 |
| ɛ | 13.72 | | | | | | 13.72 |
| a | | | | 5.57 | | 5.34 | 10.91 |
| ɑ | | 4.20 | | | 6.27 | | 10.47 |
| ɔ | 2.92 | | | | 4.03 | | 6.95 |
| u | 6.59 | | | | | | 6.59 |
| ɔ̄ | 5.96 | | | | | | 5.96 |
| ɪ | 5.44 | | | | | | 5.44 |
| ə | 0.38 | | 5.06 | | | | 5.44 |
| e | | 1.01 | | | 4.05 | | 5.06 |
| ɛ̄ | | | 4.38 | | | | 4.38 |
| ø | | | | | 4.00 | | 4.00 |
| ʌ | | | | | 2.67 | | 2.67 |
| y | 1.87 | | | | 0.44 | | 2.31 |
| z | 1.69 | | | | | | 1.69 |
| Total % | | | | | | | 99.98% |

4.9.2 Relative frequency of Mandarin vowels in the Pin-yin System

Phonemically, there are only six basic vowels in Peking dialect: /a/, /o/, /e/, /i/, /u/, and /ü/. If calculated according to their basic forms, the unrounded vowels /a/, /e/, and /i/ which together account for about 80%, are far more frequently used than the rounded ones /o/, /u/, and /ü/ which represent only 20% of the total sample. Individually, the percentages are 31.37, 24.31, and 21.52 for /a/, /e/, /i/ as compared with 13.88, 6.59, and 2.31 for /o/, /u/, /ü/ (Table 11A).

If calculated in Pin-yin's written form, the same pattern results in the basic form, with the major difference that the percentage of /ü/ vowel has greatly decreased from 2.31% to 0.18% (Table 11A, Fig. 6).

4.9.3 Relative frequency of rimes in Mandarin Phonetic Letters

In MPL, there are sixteen rimes. The arrangement in order of frequency indicates that the first three rimes make up over 25%, and the first six rimes make up over 50% of the total. It is apparent that the ㄩ contains over 10% of the total sample (Table 12).

The least frequent rimes are ㄩ and ㄤ, with frequencies of 1.87% and 1.01% respectively. Despite its low frequency, ㄤ has a high functional yield in speech, and the percentage shown indicates only those words which utilise the rime ㄤ.

TABLE 10. ANALYSIS OF MANDARIN FINALS IN THE IPA SYSTEM (IN PERCENTAGE)

Total: 754.994

Key: F: final

| Ending Medial | Open ending | | | | | | | | -j | -i | -u | -n | -ŋ | Total % | | | | | | | | | | |
|------------------|-------------|------|------|------|------|------|------|-------|------------|---------|---------|--------------|---------|-----------|--------------|---------|---------|---------|---------|---------|-------|------|------|--------|
| Ø F % | z 1.69 | 5.44 | 9.25 | 6.59 | 1.87 | 4.14 | 0.38 | 9.28 | ɔ 1.01 | ai 3.82 | ei 1.81 | au 3.03 | ən 2.05 | 4.06 3.24 | yn 1.94 | aŋ 0.44 | ɛŋ 2.57 | əŋ 2.66 | ɔŋ 3.50 | iŋ 3.20 | 71.97 | | | |
| Row-i F % | | | | | | | | | iA io 1.21 | 0.001 | iɛ 1.87 | iai 0.001 | iə 2.54 | 3.01 | | iŋ 4.03 | iŋ 2.03 | iŋ 0.50 | | | 15.19 | | | |
| Row-u F % | | | | | | | | | uA u 0.61 | uA 4.44 | uɛ 1.05 | uai uei 0.38 | uə 2.57 | | uan uən 1.29 | uŋ 0.81 | uŋ 0.74 | uŋ 0.01 | | | 10.85 | | | |
| Row-ŋ F % | | | | | | | | | | | | | | | | | | | | | 1.97 | | | |
| Total % | 1.69 | 5.44 | 9.25 | 6.59 | 1.87 | 5.96 | 0.38 | 13.72 | 2.92 | 1.01 | 4.20 | 4.38 | 5.57 | 5.06 | 6.27 | 4.05 | 4.03 | 1.94 | 0.44 | 5.34 | 2.67 | 4.00 | 3.20 | 99.99% |

TABLE 11. ANALYSIS OF MANDARIN FINALS IN THE PIN-YIN SYSTEM (IN PERCENTAGE)

| Ending Medial | Open ending | | | | | | | | -r | -i | -o | -u | -n | -ŋg | Total % | | | | | | |
|------------------|-------------|--------|--------|--------|--------|--------|---------|------------|---------|---------|--------------|---------|---------|--------------|---------|---------|---------|---------|---------|--------|------|
| Ø F % | i 16.38 | u 6.59 | ü 1.87 | a 4.14 | ɔ 0.38 | e 9.28 | ər 1.01 | ai 3.82 | ei 1.81 | ao 3.03 | ou 2.05 | ən 4.06 | ɛn 3.24 | ɪn 1.94 | ɑŋ 0.44 | ɛŋ 2.57 | əŋ 2.66 | ɔŋ 3.50 | iŋ 3.20 | 71.97 | |
| Row-i F % | | | | | | | | iA io 1.21 | 0.001 | iɛ 1.87 | iai 0.001 | iə 2.54 | 3.01 | | iŋ 4.03 | iŋ 2.03 | iŋ 0.50 | | | 15.19 | |
| Row-u F % | | | | | | | | ua u 0.61 | ua 4.44 | uɛ 1.05 | uai uei 0.38 | uə 2.57 | | uan uən 1.29 | uŋ 0.81 | uŋ 0.74 | uŋ 0.01 | | | 10.85 | |
| Row-ŋ F % | | | | | | | | | | | | | | | | | | | | | 1.97 |
| Total % | 16.38 | 6.59 | 1.87 | 5.96 | 4.82 | 12.20 | 1.01 | 4.20 | 4.38 | 5.57 | 5.06 | 10.30 | 4.05 | 1.94 | 0.44 | 5.34 | 2.67 | 4.00 | 3.20 | 99.99% | |

TABLE 11A. RELATIVE FREQUENCY OF MANDARIN VOWELS
IN THE PIN-YIN SYSTEM (Total: 754,994)

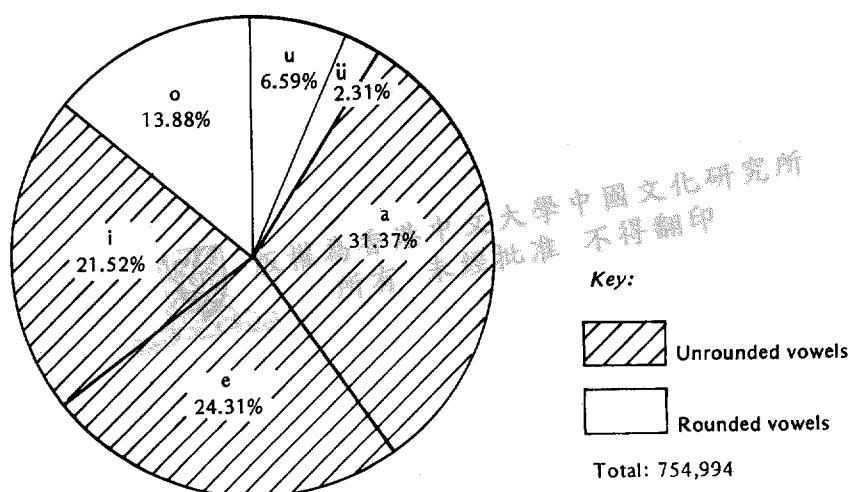
| Vowel | \emptyset | Ending | | | | | | Total percentage | |
|---------------|-------------|--------|------|------|------|------|-------|------------------|-------------------|
| | | -r | -i | -o | -u | -n | -ng | BASIC | WRITTEN |
| Unrounded | a | 5.96 | | 4.20 | 5.57 | | 10.30 | 5.34 | 31.37 |
| | e | 12.20 | 1.01 | 4.38 | | | 4.05 | 2.67 | 24.31 |
| | i | 16.38 | | | | | 1.94 | 3.20 | 21.52 |
| Total | | | | | | | | 77.20 | 74.85 |
| Rounded | o | 4.82 | | | | 5.06 | | 4.00 | 13.88 |
| | u | 6.59 | | | | | | | 6.59 |
| | ü | 1.87 | | | | | 0.44 | | 0.18 ^d |
| Total | | | | | | | | 22.78 | 21.28 |
| Grand total % | | | | | | | | 99.98 | 96.13 |

^a $21.96 = 24.31 - 2.35$; ^b $12.38 = 13.88 - 1.50$; ^c $8.72 = 6.59 + 2.13$; ^d $0.18 = 2.31 - 2.13$.

In Pin-yin's written form, two finals /ü/ and /ün/ (which consist of main vowel /ü/) are written as /u/ and /un/ (the two dots are omitted) except when preceded by /n/ and /l/; /uei/, /uen/, and /iou/ are written as /ui/, /un/, and /iu/ if preceded by a consonant (see also 2.3.1).

The percentage for the vowel /ü/, rewritten as /u/ is 2.13% (16,107); for /uei/ and /uen/ with consonants is 2.35% (17,742); and for /iou/ is 1.50% (11,324).

FIGURE 6. RELATIVE FREQUENCY OF MANDARIN VOWELS IN PIN-YIN'S BASIC FORM



4.10 Endings

According to the survey under discussion, nearly half of the syllables (47.82%) are not followed by any ending (open ending). The remaining 52.18% are syllables with endings /-n/, /-ŋ/, /-u/, /-i/, and /-ɪ/. In descending order of frequency, the percentages of these endings are 16.73, 15.21, 10.63, 8.58, and 1.01 respectively (Table 13). Among the latter five endings, the nasals /-n/, /-ŋ/ predominate, constituting 31.94% of the total sample (Table 13, Fig. 7).

TABLE 12. RELATIVE FREQUENCY OF RIMES IN MANDARIN PHONETIC LETTERS,
IN ORDER OF FREQUENCY
(Total occurrence: 754,994)

| Vowel | Medial | | | | Total percentage |
|-------------------|--------|-------|-------------------|------|------------------|
| | ∅ | l- | x- | u- | |
| 1. 马 | 4.06 | 4.03 | 1.29 | 0.92 | 10.30 |
| 2. 兰 | 2.66 | 3.20 | 3.51 ^a | 0.50 | 9.87 |
| 3. 它 | 9.28 | | | | 9.28 |
| 4. 一 | 9.25 | | | | 9.25 |
| 5. 夕 | 6.59 | | | | 6.59 |
| 6. 卜 | 3.24 | 1.94 | 0.81 | 0.44 | 6.43 |
| 7. 丫 | 4.14 | 1.21 | 0.61 | | 5.96 |
| 8. 玄 | 3.03 | 2.54 | | | 5.57 |
| 9. 元 | 2.57 | 2.03 | 0.74 | | 5.34 |
| 10. 又 | 2.05 | 3.01 | | | 5.06 |
| 11. 巴 | 0.38 | 0.001 | 4.44 | | 4.821 |
| 12. 八 | 1.81 | | 2.57 | | 4.38 |
| 13. 力 | 3.82 | 0.001 | 0.38 | | 4.201 |
| 14. 世 | | 1.87 | | 1.05 | 2.92 |
| 15. 𠂇 | 1.87 | | | | 1.87 |
| 16. 兒 | 1.01 | | | | 1.01 |
| /-i/ ^b | 1.69 | | | | 1.69 |
| /v/ | 5.44 | | | | 5.44 |
| Total % | | | | | 99.982% |

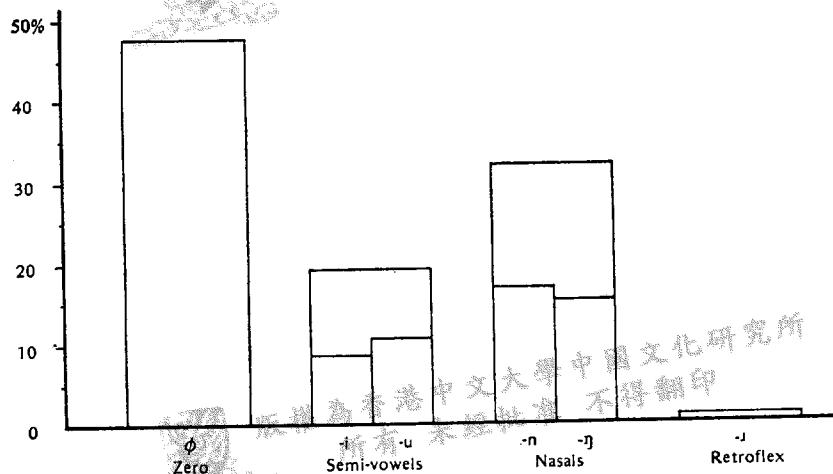
^aThe final × 兰 in MPL consists of /ong/ and /ueng/. The relative frequency of × 兰 is /ong/ 3.50% + /ueng/ 0.01% = 3.51%.

^bIn MPL, the vowels /-i/ and /v/ are not marked.

TABLE 13. RELATIVE FREQUENCY OF MANDARIN ENDINGS

| Class | Member | in IPA | Total percentage in Pin-yin | Grand total |
|-------------|---------------|--------|--------------------------------|-------------|
| Zero | ∅ | 47.82 | 47.82 | |
| Total | | | | 47.82% |
| Semi-vowels | -i | 8.58 | 8.58 | |
| | -u (-o) -u | 10.63 | 5.57 5.06 | |
| Total | | | | 19.21% |
| Nasals | -n | 16.73 | 16.73 | |
| | -ŋ (-ng) | 15.21 | 15.21 | |
| Total | | | | 31.94% |
| Retroflex | -ʂ (-ʐ) | 1.01 | 1.01 | |
| Total | | | | 1.01% |
| Grand total | | | | 99.98% |

FIGURE 7. RELATIVE FREQUENCY OF MANDARIN ENDINGS, CLASSIFIED IN IPA
(Total: 754,994)



4.11 Tones

4.11.1 Relative frequency of tones and the number of characters of which they consist

There are five tones in Mandarin (including the neutral tone). The first four tones are usually numbered 1st, 2nd, 3rd, and 4th tones. The neutral tone, in the survey discussed above, is numbered as 5th tone.

In terms of the relative frequency of the five tones as they occur, that most favoured is the 4th tone, which constitutes 34.43% of the total sample, followed by 1st, 2nd, 3rd, and 5th in descending order of frequency. Individually, their respective percentages are 21.10, 20.42, 17.79, and 6.26 (Table 14A).

On the basis of tonal behaviour, the calculations are made not only in terms of actual occurrence but also take into account the number of different characters which go to make each tone (Table 14B). It is worthy of note that both methods of calculation show the same general pattern of distribution, with predominance in the 4th tone.

Despite the character pronunciation of the secondary data used here, the 2nd and 5th (neutral) tones will normally be increased in actual speech because of the extensive use of tone sandhi,²⁶ and this is worthy of separate analysis.

The analysis of average occurrence of each character in different tones, shows a contrasting pattern of distribution when compared with the last two results (occurrence and characters) mentioned above. The characters in 5th tone would appear to be more predominant when compared with characters in the other four tones, showing 2,150 average occurrence against the others which average 150 (Table 14C).

However, it is interesting to note that over 99% of the actual occurrence of the 5th tone uses kai-kou-hu (including the [z] and [j]) (Table 14A) and in the respective character chart, the number of the neutral tone characters in kai-kou-hu also occupies a large proportion of the sample (19 out of 22) (Table 14B).

Among these characters, some are very frequently used suffixes such as: dè 的 (26,738), lè 了 (7,176), mèn 們 (4,325), zi 子 (2,128), mè 麽 (1,998), zhè 着 (1,573), etc.

²⁶ For example, when a 3rd tone is followed by another 3rd, the first one changes into a 2nd tone, e.g. zǔ-mǔ (grandmother) changes to zú-mǔ.

TABLE 14. RELATIVE FREQUENCY OF MANDARIN TONES AND THE NUMBER OF THEIR RESPECTIVE CHARACTERS, IN ORDER OF FREQUENCY

A. Tabulated in terms of occurrence.

| Tone | Kai | Qi | He | Cuo | Total | Percentage |
|-------------|---------|---------|---------|--------|---------|------------|
| 4 | 120,297 | 74,721 | 53,190 | 11,710 | 259,918 | 34.43 |
| 1 | 76,013 | 57,841 | 21,866 | 3,587 | 159,307 | 21.10 |
| 2 | 71,492 | 42,625 | 28,044 | 11,989 | 154,150 | 20.42 |
| 3 | 52,598 | 48,256 | 28,503 | 4,971 | 134,328 | 17.79 |
| 5 | 47,265 | 16 | 10 | 0 | 47,291 | 6.26 |
| Grand total | 367,665 | 223,459 | 131,613 | 32,257 | 754,994 | 100.00% |

^aCf. §4.1.

B. Tabulated in terms of their number of characters.

| Tone | Kai | Qi | He | Cuo | Total | Percentage |
|-------------|-------|-------|-------|-----|--------------------|------------|
| 4 | 639 | 472 | 380 | 135 | 1,626 | 33.45 |
| 2 | 507 | 430 | 240 | 100 | 1,277 | 26.25 |
| 1 | 502 | 360 | 218 | 52 | 1,132 | 23.29 |
| 3 | 315 | 264 | 188 | 38 | 805 | 16.56 |
| 5 | 19 | 1 | 2 | 0 | 22 | 0.45 |
| Grand total | 1,982 | 1,527 | 1,028 | 325 | 4,862 ^a | 100.00% |

^aThe total number of different characters reported in the book mentioned above (see §1.2) is 4,864.

C. Tabulated in terms of the average occurrence of each character in different tones.

| Tone | Number of occurrence | Number of characters | Average |
|------|----------------------|----------------------|---------|
| 5 | 47,291 | 22 | 2,150 |
| 3 | 134,328 | 805 | 167 |
| 4 | 259,918 | 1,626 | 160 |
| 1 | 159,307 | 1,132 | 141 |
| 2 | 154,150 | 1,277 | 121 |

4.11.2 A proposal for encoding Mandarin tones

Table 15 sets out another viable method of encoding Mandarin tones also based on the work of Mr. Wong (see §4.6).

TABLE 15. PROBABILITY DISTRIBUTION OF MANDARIN TONES

| Tone | Probability | Binary coding |
|------|-------------|---------------|
| 4 | 0.3438 | 00 |
| 1 | 0.2133 | 01 |
| 2 | 0.2039 | 10 |
| 3 | 0.1765 | 110 |
| 0 | 0.0626 | 111 |

5. Mandarin “alphabets”

5.1 Relative frequency of Mandarin letters

The “alphabets” are actually systems of alphabetical segments used here to describe the components which represent syllables in Mandarin. There are several systems used to transcribe Mandarin sounds. Only the Pin-yin system (including the modified system) and Mandarin Phonetic Letters are considered in the following calculation.

All the calculations contained in this Section are based upon the resultant figures previously derived in Sections 3 and 4.

Within Mandarin Chinese language structure, a letter may appear in the position of consonant, medial, vowel or ending. For example, the letter “i” may occur in medial position (e.g. tian), vowel position (e.g. di) or ending position (e.g. tai). The frequency of occurrence of each letter in each different position is tabulated in Part A of each of the following tables in addition to notes to indicate the process of calculation. Letters are rearranged in order of frequency in Part B of each of the respective tables.

In the Pin-yin system, some modification is required to allow for the various rules governing written syllables.

5.2 Relative frequency of Mandarin letters in the Pin-yin and Modified Systems

If Table 16B is compared with Table 17B, it is of interest to note that each of the first ten letters, from “i” to “s” occupies nearly the same relative position in descending order of occurrence and have approximately the same distribution in the sample.

- { The first 2 letters in the Modified System made up 24% of the total.
- { The first 2 letters in the Pin-yin System made up 25% of the total.
- { The first 5 letters in the Modified System made up 51% of the total.
- { The first 5 letters in the Pin-yin System made up 51% of the total.
- { The first 10 letters in the Modified System made up 78% of the total.
- { The first 10 letters in the Pin-yin System made up 77% of the total.

The five general vowel letters “a, e, i, o, u” in these two systems are contained within the first ten, with “i” being the most favoured, constituting 12.88% in the Modified System, 13.75% in the Pin-yin System. The total occurrence of these five vowel letters constitutes 45% of the total letter occurrence (45.96% in Modified, 45.62% in Pin-yin). Slightly less frequently used letters are “n, a, e, u” (in Modified, “n, a, u, e” in Pin-yin) when considered in relation to the descending order of frequency.

5.3 Comparison of the relative frequency of Mandarin and English letters²⁷

Let us compare the relative frequency of English letters (Table 18) with those in Chinese as analysed in the Pin-yin System (Table 17B). The distribution is similar, for in English, the first 2 letters make up 22%, the first 6 letters 52% and the first 11 letters 78% of the total letter sample as analysed (*cf. §5.2*). The first 10 letters in Pin-yin (with the sole exception of “g”) can be found in the first 12 letters in the English alphabet. One major difference that becomes apparent concerns the letters “g, z, j” as commonly used in Chinese which together account for 11.70% but are rarely found in English, and together only constitute 2.03% of the sample. However, the second most commonly used letter “t” in English (constituting 9.78% of sample)

²⁷ The frequency of English letters discussed here is based upon Dewey’s work *The Relative Frequency of English Speech Sounds* (Harvard University Press, 1923).

TABLE 16. RELATIVE FREQUENCY OF MANDARIN LETTERS IN THE MODIFIED SYSTEM
A. Arranged in alphabetical order.

| <i>Letter</i> | <i>Consonant</i> | <i>Medial</i> | <i>Vowel</i> | <i>Ending</i> | <i>Total</i> | <i>Percentage</i> |
|---------------|----------------------|---------------|--------------|----------------------|------------------|-------------------|
| a | — | — | 236,950 | — | 236,950 | 10.59 |
| b | 37,133 | — | — | — | 37,133 | 1.66 |
| c | 28,100 ^a | — | — | — | 28,100 | 1.26 |
| d | 75,448 | — | — | — | 75,448 | 3.37 |
| e | — | — | 186,852 | — | 186,852 | 8.35 |
| f | 19,385 | — | — | — | 19,385 | 0.87 |
| g | 36,051 | — | — | 114,939 ^b | 150,990 | 6.75 |
| h | 156,489 ^c | — | — | — | 156,489 | 6.99 |
| i | — | 114,781 | 108,678 | 64,800 | 288,259 | 12.88 |
| j | — | — | 12,761 | — | 12,761 | 0.57 |
| v | — | — | 41,107 | — | 41,107 | 1.84 |
| j | 48,142 | — | — | — | 48,142 | 2.15 |
| k | 14,722 | — | — | — | 14,722 | 0.66 |
| l | 42,122 | — | — | — | 42,122 | 1.88 |
| m | 28,132 | — | — | — | 28,132 | 1.26 |
| n | 17,017 | — | — | 241,188 ^d | 258,205 | 11.54 |
| o | — | — | 104,816 | 42,050 | 146,866 | 6.56 |
| p | 7,568 | — | — | — | 7,568 | 0.34 |
| q | 23,210 | — | — | — | 23,210 | 1.04 |
| r | 14,656 | — | — | 7,613 | 22,269 | 0.99 |
| s | 75,220 ^e | — | — | — | 75,220 | 3.36 |
| t | 30,372 | — | — | — | 30,372 | 1.36 |
| u | — | 81,886 | 49,727 | 38,228 | 169,841 | 7.58 |
| x | 40,178 | — | — | — | 40,178 | 1.80 |
| y | — | 18,154 | 14,103 | — | 32,257 | 1.44 |
| z | 65,724 ^f | — | — | — | 65,724 | 2.94 |
| Total | | | | | 2,238,302 | 100.03 % |

^a 28,100 = 8,521 (c) + 19,579 (ch)^b 114,939 (-ng)^c 156,489 = 37,883 (h) + 40,060 (zh) + 19,579 (ch) + 58,967 (sh)^d 241,188 = 126,249 (-n) + 114,939 (-ng)^e 75,220 = 16,253 (s) + 58,967 (sh)^f 65,724 = 25,664 (z) + 40,060 (zh)

B. Arranged in order of frequency.

| <i>Letter</i> | <i>Percentage</i> | <i>Letter</i> | <i>Percentage</i> |
|---------------|-------------------|---------------|-------------------|
| i | 12.88 | d | 3.37 |
| n | 11.54 | s | 3.36 |
| a | 10.59 | z | 2.94 |
| e | 8.35 | j | 2.15 |
| u | 7.58 | l | 1.88 |
| h | 6.99 | v | 1.84 |
| g | 6.75 | x | 1.80 |
| o | 6.56 | b | 1.66 |

TABLE 16 (cont'd)

| Letter | Percentage | Letter | Percentage |
|--------|------------|--------|------------|
| y | 1.44 | r | 0.99 |
| t | 1.36 | f | 0.87 |
| c | 1.26 | k | 0.66 |
| m | 1.26 | -i | 0.57 |
| q | 1.04 | p | 0.34 |

TABLE 17. RELATIVE FREQUENCY OF MANDARIN LETTERS IN THE PIN-YIN SYSTEM

A. Arranged in alphabetical order.

| Letter | Consonant | Medial | Vowel | Ending | Total | Percentage |
|--------|----------------------|---------------------|----------------------|----------------------|-----------|------------|
| a | — | — | 236,950 | — | 236,950 | 10.46 |
| b | 37,133 | — | — | — | 37,133 | 1.64 |
| c | 28,100 ^a | — | — | — | 28,100 | 1.24 |
| d | 75,448 | — | — | — | 75,448 | 3.33 |
| e | — | — | 169,110 ^g | — | 169,110 | 7.47 |
| f | 19,385 | — | — | — | 19,385 | 0.86 |
| g | 36,051 | — | — | 114,939 ^b | 150,990 | 6.67 |
| h | 156,489 ^c | — | — | — | 156,489 | 6.91 |
| i | — | 83,977 ^h | 162,546 | 64,800 | 311,323 | 13.75 |
| j | 48,142 | — | — | — | 48,142 | 2.13 |
| k | 14,722 | — | — | — | 14,722 | 0.65 |
| l | 42,122 | — | — | — | 42,122 | 1.86 |
| m | 28,132 | — | — | — | 28,132 | 1.24 |
| n | 17,017 | — | — | 241,188 ^d | 258,205 | 11.40 |
| o | — | — | 93,492 ⁱ | 42,050 | 135,542 | 5.98 |
| p | 7,568 | — | — | — | 7,568 | 0.33 |
| q | 23,210 | — | — | — | 23,210 | 1.02 |
| r | 14,656 | — | — | 7,613 | 22,269 | 0.98 |
| s | 75,220 ^e | — | — | — | 75,220 | 3.32 |
| t | 30,372 | — | — | — | 30,372 | 1.34 |
| u | — | 59,570 ^j | 80,524 | 38,228 | 180,322 | 7.96 |
| ü | — | — | 1,460 | — | 1,460 | 0.06 |
| w | 35,908 ^k | — | — | — | 35,908 | 1.59 |
| x | 40,178 | — | — | — | 40,178 | 1.77 |
| y | 72,832 ^l | — | — | — | 72,832 | 3.22 |
| z | 65,724 ^f | — | — | — | 65,724 | 2.90 |
| Total | | | | | 2,264,856 | 100.08% |

^{a-f} See respective notes on Table 16A.^g 169,110 = 186,852 - 17,742 (number of occurrence of /uei/ and /uen/, preceded by a consonant)^h 83,977 = 114,781 (-i) - (59,609 - 28,805)ⁱ 93,492 = 104,816 (/o/) - 11,324 (/iou/ preceded by a consonant)^j 59,570 = 81,886 - 22,316^k 35,908 = 29,112 + 6,796^l 72,832 = 59,609 + 13,223

TABLE 17 (cont'd)

B. Arranged in order of frequency.

| <i>Letter</i> | <i>Percentage</i> | <i>Letter</i> | <i>Percentage</i> |
|---------------|-------------------|---------------|-------------------|
| i | 13.75 | l | 1.86 |
| n | 11.40 | x | 1.77 |
| a | 10.46 | b | 1.64 |
| u | 7.96 | w | 1.59 |
| e | 7.47 | t | 1.34 |
| h | 6.91 | c | 1.24 |
| g | 6.67 | m | 1.24 |
| o | 5.98 | q | 1.02 |
| d | 3.33 | r | 0.98 |
| s | 3.32 | f | 0.86 |
| y | 3.22 | k | 0.65 |
| z | 2.90 | p | 0.33 |
| j | 2.13 | ü | 0.06 |

is rarely used in Pin-yin in which its frequency is only 1.34%. The five English vowel letters “a, e, i, o, u” which together account for 38.19% of the total letter occurrence do not, in English, occur as frequently as they do in Chinese (45.62%, Tables 17B and 18). Of these five English vowel letters, “e” predominates in English (constituting 12.68% of the sample) whereas Mandarin favours the letter “i” (13.75%).

TABLE 18. RELATIVE FREQUENCY OF ENGLISH LETTERS (DEWEY 1923)

| <i>Letter</i> | <i>Percentage</i> | <i>Letter</i> | <i>Percentage</i> |
|---------------|-------------------|---------------|-------------------|
| e | 12.68 | f | 2.56 |
| t | 9.78 | m | 2.44 |
| a | 7.88 | w | 2.14 |
| o | 7.76 | y | 2.02 |
| i | 7.07 | g | 1.87 |
| n | 7.06 | p | 1.86 |
| s | 6.34 | b | 1.56 |
| r | 5.94 | v | 1.02 |
| h | 5.73 | k | 0.60 |
| l | 3.94 | x | 0.16 |
| d | 3.89 | j | 0.10 |
| u | 2.80 | q | 0.09 |
| c | 2.68 | z | 0.06 |

5.4 Relative frequency of Mandarin Phonetic Letters

The symbols used in MPL differ from the romanized letters used in English. There are 37 letters in MPL, 11 more than the 26 letters in English. Of these 37 letters, l and x are far more frequently used constituting 13.54 and 9.74 respectively whereas ㄩ accounts for only 4.79%. The least frequently used letters in MPL are ㄤ and ㄦ each only constituting 0.47% of the total letter occurrence (Table 19).

TABLE 19. RELATIVE FREQUENCY OF MANDARIN PHONETIC LETTERS

| Letter | Occurrence | Percentage | Letter | Occurrence | Percentage |
|--------|----------------------|------------|--------|---------------------|------------|
| 丨 | 219,674 ^a | 13.54 | 𠂔 | 36,378 | 2.24 |
| ㄨ | 158,038 ^b | 9.74 | 𠂊 | 36,051 | 2.22 |
| ㄻ | 77,760 | 4.79 | 𠂉 | 36,042 ^c | 2.22 |
| ㄻ | 75,448 | 4.65 | 𠂈 | 33,078 | 2.04 |
| ㄷ | 74,550 | 4.60 | 𠂅 | 31,722 | 1.96 |
| ㄮ | 70,078 | 4.32 | 𠂆 | 30,372 | 1.87 |
| 𠂊 | 58,967 | 3.63 | 𠂊 | 28,132 | 1.73 |
| ㄣ | 48,489 | 2.98 | 𠂊 | 25,664 | 1.58 |
| ㄣ | 48,142 | 2.97 | 𠂊 | 23,210 | 1.43 |
| ㄚ | 45,029 | 2.78 | 𠂊 | 22,068 | 1.36 |
| ㄌ | 42,122 | 2.60 | 𠂊 | 19,579 | 1.21 |
| ㄭ | 42,050 | 2.59 | 𠂊 | 19,385 | 1.19 |
| ㄮ | 40,389 | 2.49 | 𠂊 | 17,017 | 1.05 |
| ㄒ | 40,178 | 2.48 | 𠂊 | 16,253 | 1.00 |
| ㄓ | 40,060 | 2.47 | 𠂊 | 14,722 | 0.91 |
| ㄡ | 38,228 | 2.36 | 𠂊 | 14,656 | 0.90 |
| ㄏ | 37,883 | 2.34 | 𠂊 | 8,521 | 0.53 |
| ㄣ | 37,133 | 2.29 | 𠂊 | 7,568 | 0.47 |
| | | | 𠂊 | 7,613 | 0.47 |
| Total | | | | 1,622,249 | 100.00% |

^a 219,674 = 69,864 (main vowel) + 149,810 (medial)^b 158,038 = 49,727 (main vowel) + 108,311 (medial)^c 36,042 = 14,103 (main vowel) + 21,939 (medial)

6. Syllables and homophonic characters

6.1 Relative frequency of Mandarin syllables and homophonic characters

The relative frequency distribution of Mandarin syllables and their homophonic characters as discussed here is derived from the same five tables of secondary data set out in appendices. The total number of syllables counted in the sample is 1,153, and the total number of characters utilised is 4,862 (two words less than reported, see Table 14B). Among the four tones (excluding neutral), it is of interest to note that the 3rd tone embraces the largest number of syllables although its occurrence and the number of included homophonic characters rank as the lowest. The distribution of different characters in conjunction with number of syllables and their occurrence in relation to tones is tabulated as follows:

| Characters | | Syllables | | Occurrence | |
|------------|--------|-----------|--------|------------|---------|
| Tone | Number | Tone | Number | Tone | Number |
| 4 | 1,626 | 4 | 325 | 4 | 259,918 |
| 2 | 1,277 | 1 | 295 | 1 | 159,307 |
| 1 | 1,132 | 3 | 275 | 2 | 154,150 |
| 3 | 805 | 2 | 242 | 3 | 134,328 |
| 5 | 22 | 5 | 16 | 5 | 47,291 |

6.2 The 100 most frequently used syllables in Mandarin

The following 100 most frequently used syllables (romanized in the Pin-yin System) are listed in their order of frequency. The actual occurrence of each syllable is followed by the number of associated homophonic characters.

| | | | | | | | | | |
|------|---------|-------|----------|-------|---------|------|---------|-------|---------|
| dé | 28437/3 | shì | 15499/25 | yī | 15102/7 | shí | 9438/8 | bù | 9389/9 |
| zài | 7465/3 | wǒ | 7461/1 | yǒu | 7391/4 | lè | 7176/1 | guó | 6707/1 |
| tā | 6477/5 | dì | 6370/9 | rén | 5694/4 | dào | 5571/8 | gè | 5008/4 |
| dà | 4810/1 | yǐ | 4746/8 | zhōng | 4406/7 | lái | 4392/2 | èr | 4388/2 |
| mēn | 4325/1 | shàng | 4290/2 | jiù | 4203/9 | zhè | 4140/3 | jiā | 4108/8 |
| lǐ | 4071/10 | sān | 4007/2 | hàn | 3999/13 | zuò | 3966/7 | shēng | 3965/9 |
| wǔ | 3878/9 | gōng | 3808/12 | lì | 3796/30 | hé | 3591/15 | yào | 3541/6 |
| sì | 3409/12 | hòu | 3383/4 | xué | 3313/1 | zhī | 3309/15 | tiān | 3303/2 |
| hùi | 3246/13 | chéng | 3214/13 | yuǎn | 3036/14 | jiao | 3076/7 | yì | 3011/37 |
| nián | 2835/3 | jí | 2791/24 | shuō | 2727/1 | yòng | 2698/2 | jiàn | 2659/24 |
| xī | 2648/24 | ér | 2555/2 | xià | 2552/5 | xiǎo | 2541/2 | míng | 2509/6 |
| qù | 2498/4 | měi | 2482/3 | hě | 2469/3 | xiào | 2455/8 | xíng | 2446/5 |
| xiàn | 2417/14 | yě | 2439/3 | xīn | 2391/10 | dōu | 2380/2 | xiàng | 2378/9 |
| zì | 2360/3 | jīng | 2330/13 | cháng | 2327/7 | shī | 2280/9 | jī | 2280/25 |
| chū | 2279/3 | zhèng | 2261/6 | hǎo | 2262/1 | zhì | 2248/20 | bā | 2216/8 |
| wéi | 2215/14 | yóu | 2207/9 | qí | 2196/22 | jì | 2188/23 | duō | 2159/1 |
| zhè | 2153/1 | zi | 2128/1 | hěn | 2124/2 | yuè | 2119/10 | fù | 2073/18 |
| tóng | 2063/9 | huà | 2050/6 | rì | 2049/1 | kè | 2024/6 | jiāng | 2021/8 |
| nǐ | 2018/3 | biàn | 2016/7 | kàn | 1976/2 | nán | 1969/6 | yú | 1963/23 |
| mín | 1958/2 | tú | 1953/8 | jìn | 1907/9 | fāng | 1886/3 | jiǔ | 1876/5 |

6.3 The 100 syllables in which the number of homophonic characters rank highest

The following 100 syllables as romanized in the Pin-yin system are listed in descending order according to the number of homophones for that syllable. The number of homophones is followed by their total occurrence in the sample.

| | | | | | | | | | |
|------|---------|------|---------|-------|---------|-------|---------|------|----------|
| yì | 37/3011 | lì | 30/3796 | yù | 30/1821 | jī | 25/2280 | shì | 25/15499 |
| bì | 25/955 | xī | 24/2648 | jí | 24/2791 | jiàn | 24/2659 | jì | 23/2188 |
| yú | 23/1963 | qí | 22/2196 | fú | 22/1147 | zhì | 20/2248 | bó | 19/635 |
| fù | 18/2073 | wèi | 17/3301 | jù | 17/1166 | yí | 17/847 | yán | 17/1443 |
| júe | 17/980 | zhī | 15/3309 | yàn | 15/392 | lí | 15/578 | jié | 15/1150 |
| jiāo | 14/856 | jiān | 14/1028 | xiān | 14/2417 | líng | 14/416 | wéi | 14/2215 |
| yán | 14/3036 | jiǎo | 14/508 | mò | 14/515 | è | 14/733 | xiāo | 13/484 |
| qiān | 13/829 | jīng | 13/2330 | chéng | 13/3214 | huáng | 13/878 | hàn | 13/3999 |
| shù | 13/1516 | hùi | 13/3246 | xù | 13/477 | fēng | 12/1210 | gōng | 12/3804 |
| yīng | 12/1240 | xía | 12/228 | xián | 12/186 | yíng | 12/462 | hú | 12/703 |
| jiǎn | 12/581 | sì | 12/3409 | qì | 12/1865 | jìng | 12/1113 | mù | 12/1176 |
| zhù | 12/1710 | wù | 12/1751 | kē | 11/687 | zhēn | 11/1014 | zhū | 11/450 |
| shū | 11/1250 | zhí | 11/1294 | méi | 11/1640 | lín | 11/1082 | zhuó | 11/107 |
| yǚ | 11/1427 | dài | 11/1568 | bèi | 11/1429 | dàn | 11/1498 | lù | 11/1689 |
| shān | 10/1378 | gān | 10/689 | zhēng | 10/571 | yān | 10/158 | xīn | 10/2391 |
| tán | 10/467 | lán | 10/434 | róng | 10/681 | xí | 10/1236 | dié | 10/172 |
| lián | 10/1120 | lǐ | 10/4071 | fǔ | 10/751 | jiè | 10/986 | xiè | 10/276 |

| | | | | | | | | | |
|------|---------|-----|--------|-------|---------|------|---------|-----|--------|
| diàn | 10/1329 | sù | 10/671 | huò | 10/1079 | yuè | 10/2119 | shī | 9/2280 |
| sī | 9/1449 | zǐ | 9/288 | shēng | 9/3965 | qī | 9/1632 | gū | 9/163 |
| mó | 9/312 | fán | 9/330 | chén | 9/644 | tóng | 9/2063 | dí | 9/324 |

6.4 Average length of the syllable in Mandarin

The average length of the syllable in Mandarin varies with the system used. Only Pin-yin, MPL and the Modified System are used in the present calculations. The figures used are based on the total number of letter occurrence as shown in Tables 16A, 17A, and 19. The tones are not however counted as one letter.

$$\text{In the Modified System: } \frac{2,238,300}{754,994} = 2.964$$

$$\text{In the Pin-yin System: } \frac{2,264,856}{754,994} = 2.999$$

$$\text{In Mandarin Phonetic Letters: } \frac{1,622,249}{754,994} = 2.15$$

It is worthy of note that in MPL, the average length is the shortest, with only 2 letters constituting one syllable, whereas the average for the other two systems is 3.

7. Conclusion

The above survey cannot be considered as completed. At this stage it cannot be fully completed since it would be imprudent to state that it will meet the total needs of the varying categories of reader who may use it as a reference work. As I have mentioned in the Introduction (§1.4), the results of the present study do provide a basic reference work for the future modification of Chinese stenography, improvement of the Chinese electronic typewriter, and the analysis of the input of the Chinese language into computer programmes. Different readers may require different results for these different aspects of their work. After all, this survey presents a large amount of data tabulation to support the results in order that the reader may quickly locate items in which they are interested and which will allow them to perform further research according to their own requirements.

Of those uses mentioned above, the studies of the application of Chinese language in computer programming and the Chinese electronic typewriter has become a very encouraging recent trend. In August 1973, a computer conference was held in Taiwan. Viable methods governing the application of Chinese to computer programming had been proposed by certain Chinese scientists and linguists. They succeeded in using the Mandarin Phonetic Letters (zhuyin fuhao) and the character roots in analysing the input data and printout of the Chinese characters in computer work.

A new machine "Matrix impact printer" which can print Chinese characters under computer control with a speed of 165 characters per second, was introduced recently by Dr. Hong Yi-yuan who works in Mohawk Data Science Corporation.²⁸ Dr. Hong pointed out that the technique of designing a wholly Chinese language computer is no longer a problem. Researches should keep abreast of the current trends in science. He believes that romanization

²⁸ Hong Yi-yuan 洪義源, "The Analysis of the Input and Output of Chinese Characters in Computer" 電腦輸入輸出的漢字化, *Dou Sou* 抖擞, March 1975.

(including MPL) is the only reasonable way to deal with the input of Chinese language in computer programmes.²⁹

As for the use of syllabic components in representing characters, Prof. Chou Fa-kao put forward two proposals for use in transcribing Cantonese and Mandarin to the symbolic form.³⁰ According to his proposals, not more than five letters are required to indicate a character (the first four deal with syllabic components and the last romanized letter deals with the order of homophonic characters). For example: in Cantonese, Sing Dou Daily 星島日報 can be written as: SIQ1 DOU2 YVT3 BOU3. In Mandarin, The Chinese University of Hong Kong 香港中文大學 can be written as: XIAQ G3AQ J1OQ VEN D4A XYUE.

However in contradistinction to these last proposals, the Modified System used in this study may be considered worthy of further consideration as the average syllable length to be programmed is only 3 letters (see § 6.4) and it is easy to learn since it is derived from the Pin-yin System (see §2.3.1).

Finally, I would like to suggest that the extension of this type of study can only emerge from close cooperation between linguists and scientists since it requires the application of techniques from both fields.

For the future, it may be considered of value to carry out a similar research using the compounds as data. This could result in a decrease in the number of homophonic characters needing to be considered during the input of Chinese characters.

Last but not least, I should like to extend my gratitude to Mr. David Newbury, a local air pollution control officer, for going through every word of the manuscript and rendering it into a readable paper, and to Mr. Wong Kar-lung for preparing the programme. Without their help I could not have completed the present survey. I give my best wishes to both of them

²⁹ Ibid.

³⁰ For Cantonese, refer to "Chinese Telegraphy and Typewriter" 談中文發報打字, *Sing Dou Daily*, Hong Kong, 21st November, 1972. For Mandarin, refer to "A Sequel to Chinese Telegraphy and Typewriter" 再談中文發報打字, *Ming Pao Monthly*, Vol. 111 (March 1975), pp. 98-99.

APPENDIX I. SECONDARY DATA USED IN THIS SURVEY: SYLLABLES INVOLVED AND THEIR FREQUENCY OF OCCURRENCE (TRANSCRIBED IN MODIFIED SYSTEM)

Note: Figure on the left of the stroke in each box indicates number of homophonic characters.
Figure on the right indicates frequency of its occurrence in the sample survey.

1st Tone:

| a | o | e | -i | v | er | ai | ei | ao | ou | an | en | eng | ong | i | ia | iai | iao | ie | io | iou | iu | ui | uei | uen | uen | uang | ueung | y | ye | yan | yn | | | | | |
|----|---------|-------|-----|---|----|--------|-------|--------|--------|---------|---------|--------|---------|--------|---------|------|-----|-------|--------|--------|--------|-------|------|-------|-------|--------|-------|-------|-------|--------|-------|-------|------|-------|------|------|
| b | 8/22/16 | 7/372 | | | | 7/203 | 5/417 | 6/761 | 1/39 | 3/283 | 2/22 | | 1/35 | | | | | | 2/168 | | | | | | | 4/1027 | 6/198 | | 3/470 | | | | | | | |
| p | 2/6 | 2/108 | | | | 1/124 | 2/10 | 2/13 | 2/33 | 1/48 | 2/9 | 3/19 | 8/157 | | | | | | 2/73 | 2/6 | | | | | | 3/181 | 1/47 | | 1/4 | | | | | | | |
| m | 1/1043 | 1/38 | | | | 1/90 | | | | | | | | | | | | | 1/2 | 1/35 | | | | | | | | | | 3/75 | | | | | | |
| r | 2/1743 | | | | | 6/1294 | | 5/137 | 7/1472 | 3/1886 | 12/1210 | | | | | | | 5/25 | 1/279 | 1/49 | 3/23 | | | | | | | 7/428 | | | | | | | | |
| d | 3/79 | | | | | 2/48 | 2/111 | 2/2383 | 8/483 | 3/1037 | 3/289 | 5/1711 | 3/221 | | | | | 2/37 | 2/74 | | 2/303 | | | | | | 4/116 | 3/393 | | 1/2159 | | | | | | |
| t | 5/6477 | | | | | 1/15 | 4/27 | 6/123 | 4/85 | 2/46 | 1/802 | 3/71 | | | | | | | | | | | | | 3/825 | 1/8 | | 4/184 | | | | | | | | |
| n | 1/1 | | | | | | | | | | | | | | | | | | 1/7 | | | | | | | | | | 1/255 | 1/1 | 1/39 | | | | | |
| l | 2/658 | | | | | | | | | | | | | | | | | | | 1/13 | | | | | | | | | | | 1/51 | | | | | |
| z | 3/4 | | | | | 9/288 | | 3/135 | 2/92 | 3/6 | 1/1 | 1/66 | 3/256 | 7/269 | | | | | | | | | | | | | | | | | | 1/6 | | | | |
| c | 1/88 | | | | | 3/19 | 1/30 | 2/127 | 2/549 | 1/1 | 5/91 | 7/109 | | | | | | | | | | | | | | | | | | | | 1/48 | | | | |
| s | 2/7 | | | | | 8/449 | | 3/31 | 4/40 | 3/37 | 2/407 | 1/121 | 2/55 | 1/11 | 5/197 | | | | | | | | | | | | | | | | | 1/64 | | | | |
| zh | 2/7 | | | | | 15/309 | | 2/37 | 6/198 | 6/189 | 7/45 | 11/104 | 7/772 | 10/571 | 7/406 | | | | | | | | | | | | | | | | | 1/431 | | | | |
| ch | 4/95 | | | | | 3/953 | | 2/75 | 3/124 | 1/65 | 1/2 | 1/5 | 4/129 | 5/372 | 5/342 | | | | | | | | | | | | | | | | | 5/62 | | | | |
| sh | 5/577 | 1/3 | | | | 9/280 | 1/1 | 3/241 | 1/421 | 10/1378 | 7/1104 | 2/549 | 9/395 | | | | | | | | | | | | | | | | | | 3/89 | | | | | |
| r | | | | | | | | | | | | | | | | | | | | 1/44 | | | | | | | | | | | 1/27 | | | | | |
| i | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| g | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| k | 1/10 | | | | | 8/773 | | 2/444 | 5/1409 | 5/125 | 10/689 | 2/1016 | 6/414 | 5/139 | 12/3804 | | | 2/484 | 3/1110 | 4/1383 | 6/1083 | 6/245 | | | | | | | 7/402 | 1/80 | 1/65 | | | | | |
| h | 1/329 | 2/170 | | | | 11/687 | | 2/1300 | 2/533 | 1/6 | 5/93 | 3/251 | 1/33 | 2/826 | | | | | | | | | | | | | | | | | 6/490 | | | | | |
| ø | 1/243 | 1/26 | 1/1 | | | 5/129 | | 3/18 | 1/173 | 7/728 | 2/49 | 1/27 | 7/15102 | 5/585 | 6/237 | 1/13 | 1/8 | 4/188 | 10/158 | 6/14 | 5/27 | 6/140 | 5/11 | 6/377 | 5/111 | 4/90 | 1/21 | 5/210 | 6/595 | 1/301 | 1/25 | 2/74 | 2/11 | 2/479 | 5/41 | 1/12 |

2nd Tone:

| a | o | e | -i | v | er | ai | ei | ao | ou | an | en | eng | ong | i | ia | iai | iao | ie | io | iou | iu | ui | uei | uen | uen | uang | ueung | y | ye | yan | yn |
|----|--------|--------|-------|---------|-------|--------|--------|-------|--------|--------|-------|--------|--------|--------|------|-----|-----|----|--------|--------|---------|-------|--------|-----|-----|------|-------|---|---------|--------|----|
| b | 19/635 | 2/47 | | | | 6/1662 | 2/26 | | | | | | | 1/1 | 2/61 | | | | | 1/644 | | | | | | | | | | | |
| p | 4/130 | 2/115 | | | | 6/160 | 5/134 | 2/11 | | 2/121 | 1/83 | 5/197 | 6/489 | 9/1420 | | | | | | 2/2 | | | | | | | | | | 1/73 | |
| m | 6/198 | 9/312 | | | | 2/43 | 11/160 | 3/298 | 3/77 | 3/43 | 1/609 | 5/315 | 8/202 | 5/74 | | | | | 3/113 | | | | | | | | | | 8/1176 | | |
| r | 5/100 | 1/93 | | | | 2/17 | | | | | | | | | | | | | | | | | | | | | | | 8/103 | | |
| d | 4/678 | 2/162 | | | | 6/1236 | | 7/39 | 2/1186 | 10/467 | 8/411 | 5/102 | 9/2063 | 7/1232 | | | | | 10/172 | | | | | | | | | | 6/2367 | | |
| t | 1/444 | | | | | 2/4392 | 6/165 | 4/235 | 5/107 | 10/434 | 8/151 | 2/8 | 8/456 | 15/578 | | | | | 3/852 | | | | | | | | | | 6/2369 | | |
| z | 2/2107 | 5/486 | | | | 1/14 | 1/38 | | 1/23 | | | | | | | | | | | | | | | | | | | | 2/21147 | | |
| sh | | 5/1485 | | | | 7/1080 | | 4/75 | 3/233 | 1/101 | 2/365 | 4/1151 | | | | | | | | | | | | | | | | | | 3/142 | |
| c | | 7/586 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3/1725 | |
| s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3/61 | |
| zh | 5/42 | 7/106 | | 11/1294 | 2/11 | | 2/96 | 1/32 | | 6/33 | 9/644 | 7/2327 | 3/314 | 4/462 | | | | | 1/270 | 3/285 | 1/120 | 1/51 | 2/734 | | | | | | 1/70 | | |
| ch | 4/848 | | 6/416 | 1/106 | | 4/328 | 6/169 | | | | | | | | | | | | 8/943 | 10/120 | 11/1082 | 6/671 | 14/416 | | | | | | 8/149 | | |
| sh | | 8/577 | | 8/9438 | 1/242 | 3/11</ | | | | | | | | | | | | | | | | | | | | | | | | | |

Bid Tone:

#11 Tone:

5th Tone:

APPENDIX II. SECONDARY DATA USED IN THIS SURVEY: CHARACTERS INVOLVED AND
THEIR FREQUENCY OF OCCURRENCE

1. The data listed here was taken from *A Study on the High Frequency Words Used in Chinese Elementary School Reading Materials* prepared by the National Institute for Compilation and Translation, Chung Hwa Book Co. Ltd., Republic of China, 1967.
2. Characters are arranged according to their respective Mandarin Phonetic Letters. Homophones are arranged in descending order of their frequency of occurrence. Variants of the preceding characters are shown in brackets. The number of their occurrences is included in the total given for the preceding character.
3. The figure to the right of each character refers to its frequency of occurrence; they make up a total of 754,994.
4. The romanization to the right of MPL indicates the Pin-yin transcription.

| | | |
|---|---|--|
| 【ㄅㄚ】 ba ㄅㄚ 八 1457 巴 437 吧 296 叻 17 芭 4 芭 2 疤 2 疤 1 ㄅㄚ 拔 37 跋 10 ㄅㄚ 把 1692 ㄅㄚ 爸 607 霽 91 霸 42 墣 14 把 1 潞 1 | 鉏 2 駁 2 搏 1 ㄅㄤ 跛 2 簾 1 ㄅㄤ 播 217 簾 4 毫 3 | 【ㄅㄤ】 bao ㄅㄤ 包 285 胞 123 褒 5 苞 2 剥 2 ㄅㄤ 罂 15 薄 11 ㄅㄤ 保 403 寶 205 鮑 63 堡 48 ㄅㄤ 報 891 抱 110 暴 106 爆 94 ㄅㄤ 敗 160 鮑 19 鮑 12 拜 97 豹 3 豹 2 |
| 【ㄅㄤ】 bo ㄅㄤ 波 174 玻 123 撥 51 剝 14 菴 8 鈚 2 (鉢 1) | 【ㄅㄟ】 bei ㄅㄟ 杯 112 (盃 2) 悲 43 背 21 (措 2) 卑 19 碑 8 | 【ㄅㄟ】 ban ㄅㄞ 班 453 般 188 搬 69 斑 26 頑 24 扳 1 ㄅㄞ 版 212 板 211 閩 10 阪 9 坂 1 ㄅㄞ 辨 495 半 402 伴 62 拌 20 扮 13 瓣 3 紊 1 |
| ㄅㄤ 伯 148 博 136 (博 3) 柏 102 泊 52 薄 52 渤 46 勃 34 蔴 18 脖 18 脖 12 (賴 1) 銮 4 帛 3 簠 3 舶 2 | ㄅㄞ 北 1696 ㄅㄞ 被 754 備 433 背 125 貝 61 倍 32 輩 8 猥 6 煥 4 帛 3 繢 2 | |

| | | |
|------------------|-------------------|------------------|
| 【𠂔𠂔】 ben | 【𠂔𠂔𠂔】 bie | 堵 33 卜 11 哺 8 |
| 𠂔𠂔 奔 39 | 𠂔𠂔𠂔 别 644 | 𠂔𠂔 不 6634 部 1475 |
| 𠂔𠂔 本 1800 番 3 | 𠂔𠂔𠂔 鸢 1 | 布 558 步 400 |
| 𠂔𠂔 笨 36 苞 1 | | 薄 130 佈 123 |
| 【𠂔尤】 bang | 【𠂔𠂔𠂔】 biao | 埠 41 怖 27 |
| 𠂔尤 幢 202 邦 62 | 𠂔𠂔𠂔 標 165 彪 3 | 飾 1 |
| 𠂔𠂔 傍 19 | 𠂔𠂔𠂔 表 896 錄 16 | |
| 𠂔𠂔 膀 54 榜 23 | 𠂔𠂔𠂔 鯉 2 | 【𠂔ㄚ】 pa |
| 綁 12 | | 趴 4 啪 2 |
| 𠂔𠂔 棒 138 磅 26 | 【𠂔𠂔𠂔】 bian | 爬 116 爬 11 |
| 蚌 18 銳 3 | 𠂔𠂔𠂔 邊 642 編 355 | 杷 2 杷 1 |
| 𠂔𠂔 傍 1 | 𠂔𠂔𠂔 鞭 29 蝠 1 | 𠂔ㄚ 怕 228 帕 15 |
| 【𠂔𠂔】 beng | 𠂔𠂔𠂔 扁 17 贶 4 | |
| 𠂔𠂔 崩 16 編 6 | 𠂔𠂔𠂔 匾 1 | 【𠂔ㄛ】 po |
| 𠂔𠂔 畏 1 | 𠂔𠂔𠂔 便 782 遍 635 | 坡 70 濟 38 |
| 𠂔𠂔 蹤 15 | 𠂔𠂔𠂔 變 526 辨 33 | 𠂔ㄛ 婆 92 鄰 23 |
| 【𠂔丨】 bi | 𠂔𠂔𠂔 辨 24 汗 9 | 𠂔ㄛ 頗 19 |
| 𠂔丨 逼 35 | 𠂔𠂔𠂔 辨 7 | 𠂔ㄛ 破 228 迫 68 |
| 𠂔丨 鼻 59 孽 2 | 【𠂔𠂔𠂔】 bin | 魄 7 琥 6 |
| 𠂔丨 比 778 筆 390 | 𠂔𠂔𠂔 賓 97 濱 67 | |
| 𠂔丨 彼 49 淑 1 | 𠂔𠂔𠂔 彬 21 (斌 7) | 【𠂔ㄞ】 pai |
| 𠂔丨 姦 1 | 𠂔𠂔𠂔 濱 12 檳 1 | 𠂔ㄞ 拍 124 |
| 𠂔丨 必 344 畢 208 | 𠂔𠂔𠂔 殘 7 髮 1 | 𠂔ㄞ 排 198 牌 54 |
| 避 91 壁 74 | 【𠂔𠂔𠂔】 bing | 徘徊 3 草 3 |
| 臂 54 閉 47 | 𠂔𠂔𠂔 兵 368 水 102 | 𠂔ㄞ 輯 1 淚 1 |
| 碧 34 帛 27 | (冰 75) | 𠂔ㄞ 派 210 沛 1 |
| 祕 15 弊 10 | 【𠂔𠂔𠂔】 bi | 【𠂔ㄟ】 pei |
| 俾 8 蔽 7 | 𠂔𠂔𠂔 丙 40 餠 37 | 𠂔ㄟ 胚 8 呶 2 |
| 璧 6 鄙 5 | 𠂔𠂔𠂔 柄 21 秉 7 | 𠂔ㄟ 培 70 陪 33 |
| 庇 4 敝 4 | 𠂔𠂔𠂔 炳 2 炙 2 | 𠂔ㄟ 賠 22 裴 8 |
| 陛 3 辟 3 | 𠂔𠂔𠂔 栗 2 | 𠂔ㄟ 坏 1 |
| 斃 2 婢 2 | 𠂔𠂔𠂔 並 799 痘 524 | 𠂔ㄟ 配 104 佩 67 |
| 暭 2 弊 2 | 𠂔𠂔𠂔 并 31 併 30 | 沛 12 琥 1 |
| 比 1 禰 1 | 𠂔𠂔𠂔 捐 1 | 【𠂔ㄠ】 pao |
| 愾 1 | | 𠂔ㄠ 捕 162 捕 81 |
| | | 抛 12 泡 1 |

久𠂇 布 9 咆 2
 久𠂇 跑 340
 久𠂇 碾 78 (砲 20
 炮 13) 泡 56
 咖 2

【久又】 pou
 久义 剖 12

【久马】 pan
 久马 潘 27 攀 6
 久马 盤 119 繫 2
 久马 判 78 叛 54
 盼 11 眇 9
 拼 3

【久𠂇】 pen
 久𠂇 噴 48
 久𠂇 益 83
 久𠂇 噴 8

【久尤】 pang
 久尤 滂 5 兵 4
 久尤 旁 154 烙 15
 龐 13 膺 10
 傍 5

久尤 胖 37

【久𠂇】 peng
 久𠂇 碎 11 烹 7
 拧 1

久𠂇 朋 402 澎 30
 彭 19 膨 16
 蓬 11 鵬 7
 棚 2 硕 2
 久𠂇 捧 10
 久𠂇 碰 80

【久𠂇】 pi
 久𠂇 批 76 匹 31

披 19 婦 12
 坏 8 露 4
 噗 4 丕 3
 久𠂇 皮 346 疲 41
 脾 13 琵 11
 啤 3 埤 3
 昆 2 (毗 1)
 枇 1
 久𠂇 正 10 匹 8
 豔 2 劈 2
 濶 1
 久𠂇 譬 24
 僻 10 屁 7
 媚 1

【久𠂇】 pie
 久𠂇 警 4 撇 2

【久𠂇】 piao
 久𠂇 飄 61 漂 12
 久𠂇 瓢 1 燠 1
 久𠂇 漂 36 瞭 1
 久𠂇 票 340 漂 23

【久𠂇】 pian
 久𠂇 篇 123 偏 46
 翩 12

久𠂇 便 23
 久𠂇 片 352 驅 28
 徧 16

【久𠂇】 pin
 久𠂇 拼 47

久𠂇 貧 44 蘋 8
 頻 7
 久𠂇 品 401
 久𠂇 聘 13

【久𠂇】 ping
 久𠂇 兵 4

久𠂇 平 964 評 61
 屏 46 瓶 44
 憑 30 萍 18
 蘋 7 坪 6

【久𠂇】 pu
 久𠂇 撲 56 鋪 15
 仆 4

久义 葡 46 蒲 19
 樸 19 僕 9
 朴 7 蒲 1
 菩 1 講 1
 久义 普 168 浦 54
 譜 14 團 9
 滾 2

久义 鋪 30 (舖 24)
 曝 7 瀑 4
 暴 4

【口𠂇】 ma
 口𠂇 媚 1043

口𠂇 麻 170 嘴 16
 蕃 5 麻 3
 痴 3 螺 1

口𠂇 馬 598 瑪 40
 碣 37 蝴 36
 口𠂇 罷 86
 口𠂇 嘴 321 麻 4
 嘛 1

【口𠂇】 mo

口𠂇 摸 78
 口𠂇 模 118 摩 91
 磨 43 魔 35
 嘘 12 謨 7
 模 3 謨 2
 蘆 1

口𠂇 抹 17
 口𠂇 脉 94 墨 88

| | | | | |
|--------------|-------|-------------------|-----------|-------|
| 莫 77 | 末 65 | 眎 2 | 口 1 密 226 | 密 28 |
| 膜 48 | 默 41 | 口 义 某 49 | 祕 79 | 蜜 107 |
| 漠 34 | 沒 32 | | 泌 22 | 覓 4 |
| 寢 14 | 陌 12 | | 汨 2 | |
| 沫 4 | 歿 3 | 【口 ㄞ】 man | | |
| 抹 2 | 秣 1 | 口 ㄞ 蠻 20 饅 18 | | |
| 【口 ㄞ】 me | | 瞞 5 | | |
| · 口 ㄞ 麽 1998 | | 口 ㄞ 滿 372 | | |
| 【口 ㄞ】 mai | | 口 ㄞ 慢 226 曼 65 | | |
| 口 ㄞ 埋 42 | 霾 1 | 漫 31 嫩 8 | | |
| 口 ㄞ 買 288 | | 蔓 4 鏡 3 | | |
| 口 ㄞ 麥 162 | 賣 147 | 【口 ㄣ】 men | | |
| 遭 27 | 勸 1 | 口 ㄣ 門 609 | | |
| 【口 ㄟ】 mei | | 口 ㄣ 悶 22 憊 1 | | |
| 口 ㄟ 没 1332 | 媒 111 | · 口 ㄣ 們 4325 | | |
| 梅 58 | 眉 37 | 【口 ㄤ】 mang | | |
| 徽 36 | 枚 32 | 口 ㄤ 忙 244 芒 30 | | |
| 湄 12 | 霉 10 | 茫 21 盲 12 | | |
| 媒 7 | 玫 3 | 氓 8 | | |
| 霉 2 | | 口 ㄤ 莽 6 | | |
| 口 ㄟ 美 1548 | 每 933 | 【口 ㄥ】 meng | | |
| 饌 1 | | 口 ㄥ 蒙 135 盟 50 | | |
| 口 ㄟ 妹 326 | 媚 7 | 濛 4 瞒 4 | | |
| 沫 3 | 昧 2 | 樣 3 瞑 2 | | |
| 寐 2 | 魅 2 | 懵 2 萌 2 | | |
| 瑁 1 | | 口 ㄥ 猛 77 蟠 5 | | |
| 【口 ㄠ】 mao | | 猛 4 | | |
| 口 ㄠ 貂 90 | | 口 ㄥ 孟 91 夢 82 | | |
| 口 ㄠ 毛 274 | 茅 20 | 【口 ㄧ】 mi | | |
| 矛 4 | | 口 ㄧ 咪 14 眇 9 | | |
| 口 ㄠ 帷 56 | 冒 51 | 口 ㄧ 迷 48 猶 13 | | |
| 貌 41 | 質 34 | 謎 6 糜 5 | | |
| 茂 27 | 憇 1 | 瀾 2 | | |
| 【口 ㄡ】 mou | | 口 ㄧ 米 281 麻 3 | | |
| 口 ㄡ 謂 73 | 牟 2 | 麌 1 | | |
| 【口 ㄞ】 mei | | 【口 ㄞ】 mie | | |
| · 口 ㄞ 麽 1998 | | 口 ㄞ 啭 35 | | |
| 【口 ㄞ】 mai | | 口 ㄞ 滅 132 蔑 8 | | |
| 口 ㄞ 埋 42 | 霾 1 | 【口 ㄞ】 miao | | |
| 口 ㄞ 買 288 | | 口 ㄞ 嘴 2 | | |
| 口 ㄞ 麥 162 | 賣 147 | 口 ㄞ 苗 82 描 26 | | |
| 遭 27 | 勸 1 | 口 ㄞ 瞄 5 | | |
| 【口 ㄟ】 mei | | 口 ㄞ 秒 37 渺 8 | | |
| 口 ㄟ 没 1332 | 媒 111 | 口 ㄞ 貌 2 | | |
| 梅 58 | 眉 37 | 口 ㄞ 妙 65 瘫 41 | | |
| 徽 36 | 枚 32 | 【口 ㄤ】 mian | | |
| 湄 12 | 霉 10 | 口 ㄤ 棉 198 眠 40 | | |
| 媒 7 | 玫 3 | 綿 29 (縣 10) | | |
| 霉 2 | | 口 ㄤ 免 184 緬 54 | | |
| 口 ㄟ 美 1548 | 每 933 | 勉 35 眇 3 | | |
| 饌 1 | | 媿 1 | | |
| 口 ㄟ 妹 326 | 媚 7 | 口 ㄤ 面 1800 麵 65 | | |
| 沫 3 | 昧 2 | (麌 20) | | |
| 寐 2 | 魅 2 | 【口 ㄞ】 min | | |
| 瑁 1 | | 口 ㄞ 民 1949 岷 9 | | |
| 【口 ㄠ】 mao | | 口 ㄞ 閩 38 敏 31 | | |
| 口 ㄠ 貂 90 | | 皿 8 懈 7 | | |
| 口 ㄠ 毛 274 | 茅 20 | 憫 4 振 1 | | |
| 矛 4 | | 閔 1 潛 1 | | |
| 口 ㄠ 帷 56 | 冒 51 | 【口 ㄤ】 ming | | |
| 貌 41 | 質 34 | 口 ㄤ 明 1389 名 1082 | | |
| 茂 27 | 憇 1 | 銘 15 鳴 14 | | |
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| <p>【ㄌㄞ】 lai</p> <table border="0"> <tr><td>ㄌㄞ</td><td>來</td><td>4357</td><td>萊</td><td>35</td></tr> <tr><td>ㄌㄞ</td><td>賴</td><td>41</td><td>瀨</td><td>4</td></tr> <tr><td></td><td>癩</td><td>2</td><td></td><td></td></tr> </table> <p>【ㄌㄟ】 lei</p> <table border="0"> <tr><td>ㄌㄞ</td><td>雷</td><td>147</td><td>螺</td><td>12</td></tr> <tr><td></td><td>彙</td><td>3</td><td>擂</td><td>1</td></tr> <tr><td></td><td>鑄</td><td>1</td><td>贏</td><td>1</td></tr> <tr><td>ㄌㄞ</td><td>壘</td><td>73</td><td>累</td><td>11</td></tr> <tr><td></td><td>儡</td><td>14</td><td>裸</td><td>3</td></tr> <tr><td></td><td>薈</td><td>2</td><td>未</td><td>1</td></tr> <tr><td>ㄌㄞ</td><td>類</td><td>557</td><td>淚</td><td>62</td></tr> <tr><td></td><td>累</td><td>28</td><td></td><td></td></tr> </table> <p>【ㄌㄠ】 lao</p> <table border="0"> <tr><td>ㄌㄠ</td><td>撈</td><td>21</td></tr> <tr><td>ㄌㄠ</td><td>勞</td><td>186</td><td>牢</td><td>34</td></tr> <tr><td></td><td>癆</td><td>10</td><td>嘯</td><td>2</td></tr> <tr><td>ㄌㄠ</td><td>老</td><td>1263</td><td>姥</td><td>14</td></tr> <tr><td></td><td>佬</td><td>1</td><td></td><td></td></tr> <tr><td>ㄌㄠ</td><td>烙</td><td>8</td><td>勞</td><td>5</td></tr> <tr><td></td><td>酪</td><td>1</td><td></td><td></td></tr> </table> <p>【ㄌㄡ】 lou</p> <table border="0"> <tr><td>ㄌㄢ</td><td>樓</td><td>104</td><td>(樓)</td><td>11</td></tr> <tr><td></td><td>謙</td><td>1</td><td>娶</td><td>1</td></tr> <tr><td></td><td>嫖</td><td>1</td><td></td><td></td></tr> <tr><td>ㄌㄢ</td><td>簷</td><td>11</td><td>摟</td><td>1</td></tr> <tr><td>ㄌㄢ</td><td>露</td><td>36</td><td>漏</td><td>21</td></tr> <tr><td></td><td>陋</td><td>20</td><td></td><td></td></tr> <tr><td>ㄌㄢ</td><td>嘍</td><td>2</td><td></td><td></td></tr> </table> <p>【ㄌㄞ】 lan</p> <table border="0"> <tr><td>ㄌㄞ</td><td>蘭</td><td>286</td><td>藍</td><td>54</td></tr> <tr><td></td><td>籃</td><td>48</td><td>欄</td><td>19</td></tr> <tr><td></td><td>攔</td><td>11</td><td>瀾</td><td>6</td></tr> <tr><td></td><td>檻</td><td>4</td><td>闌</td><td>3</td></tr> <tr><td></td><td>嵐</td><td>2</td><td>嫋</td><td>1</td></tr> </table> | ㄌㄞ | 來 | 4357 | 萊 | 35 | ㄌㄞ | 賴 | 41 | 瀨 | 4 | | 癩 | 2 | | | ㄌㄞ | 雷 | 147 | 螺 | 12 | | 彙 | 3 | 擂 | 1 | | 鑄 | 1 | 贏 | 1 | ㄌㄞ | 壘 | 73 | 累 | 11 | | 儡 | 14 | 裸 | 3 | | 薈 | 2 | 未 | 1 | ㄌㄞ | 類 | 557 | 淚 | 62 | | 累 | 28 | | | ㄌㄠ | 撈 | 21 | ㄌㄠ | 勞 | 186 | 牢 | 34 | | 癆 | 10 | 嘯 | 2 | ㄌㄠ | 老 | 1263 | 姥 | 14 | | 佬 | 1 | | | ㄌㄠ | 烙 | 8 | 勞 | 5 | | 酪 | 1 | | | ㄌㄢ | 樓 | 104 | (樓) | 11 | | 謙 | 1 | 娶 | 1 | | 嫖 | 1 | | | ㄌㄢ | 簷 | 11 | 摟 | 1 | ㄌㄢ | 露 | 36 | 漏 | 21 | | 陋 | 20 | | | ㄌㄢ | 嘍 | 2 | | | ㄌㄞ | 蘭 | 286 | 藍 | 54 | | 籃 | 48 | 欄 | 19 | | 攔 | 11 | 瀾 | 6 | | 檻 | 4 | 闌 | 3 | | 嵐 | 2 | 嫋 | 1 | <p>【ㄌㄞ】 lai</p> <table border="0"> <tr><td>ㄌㄞ</td><td>覽</td><td>89</td><td>懶</td><td>35</td></tr> <tr><td></td><td>攬</td><td>8</td><td>櫬</td><td>4</td></tr> <tr><td>ㄌㄞ</td><td>爛</td><td>60</td><td>濫</td><td>12</td></tr> <tr><td></td><td>纏</td><td>5</td><td></td><td></td></tr> </table> <p>【ㄌㄞ】 lang</p> <table border="0"> <tr><td>ㄌㄞ</td><td>郎</td><td>70</td><td>狼</td><td>36</td></tr> <tr><td></td><td>廊</td><td>25</td><td>萐</td><td>7</td></tr> <tr><td></td><td>螂</td><td>5</td><td>鄉</td><td>4</td></tr> <tr><td>ㄌㄞ</td><td>琅</td><td>3</td><td>榔</td><td>1</td></tr> <tr><td></td><td>朗</td><td>43</td><td></td><td></td></tr> </table> <p>【ㄌㄞ】 leng</p> <table border="0"> <tr><td>ㄌㄞ</td><td>稜</td><td>6</td><td>楞</td><td>2</td></tr> <tr><td>ㄌㄞ</td><td>冷</td><td>208</td><td></td><td></td></tr> <tr><td>ㄌㄞ</td><td>愣</td><td>4</td><td></td><td></td></tr> </table> <p>【ㄌㄧ】 li</p> <table border="0"> <tr><td>ㄌㄧ</td><td>哩</td><td>13</td></tr> <tr><td>ㄌㄧ</td><td>離</td><td>297</td><td>璃</td><td>96</td></tr> <tr><td></td><td>黎</td><td>75</td><td>犧</td><td>28</td></tr> <tr><td></td><td>梨</td><td>27</td><td>虧</td><td>15</td></tr> <tr><td></td><td>狸</td><td>15</td><td>(狸)</td><td>1</td></tr> <tr><td></td><td>厘</td><td>7</td><td>(釐)</td><td>3</td></tr> <tr><td></td><td>離</td><td>6</td><td>釐</td><td>6</td></tr> <tr><td></td><td>驪</td><td>4</td><td>漓</td><td>1</td></tr> <tr><td></td><td>灘</td><td>1</td><td></td><td></td></tr> </table> <p>【ㄌㄧ】 2330</p> <table border="0"> <tr><td>ㄌㄧ</td><td>裏</td><td>2330</td><td>(裡)</td><td>349</td></tr> <tr><td></td><td>理</td><td>787</td><td>里</td><td>396</td></tr> <tr><td></td><td>李</td><td>273</td><td>禮</td><td>253</td></tr> <tr><td></td><td>哩</td><td>14</td><td>涅</td><td>8</td></tr> <tr><td></td><td>澧</td><td>6</td><td>鯉</td><td>4</td></tr> </table> <p>【ㄌㄧ】 1074</p> <table border="0"> <tr><td>ㄌㄧ</td><td>力</td><td>1074</td><td>立</td><td>1021</td></tr> <tr><td></td><td>利</td><td>753</td><td>麗</td><td>298</td></tr> <tr><td></td><td>例</td><td>194</td><td>歷</td><td>136</td></tr> <tr><td></td><td>勵</td><td>59</td><td>曆</td><td>53</td></tr> <tr><td></td><td>粒</td><td>42</td><td>厲</td><td>40</td></tr> <tr><td></td><td>栗</td><td>27</td><td>吏</td><td>25</td></tr> </table> <p>【ㄌㄧ】 1801</p> <table border="0"> <tr><td>ㄌㄧ</td><td>六</td><td>1801</td><td>餚</td><td>6</td></tr> </table> | ㄌㄞ | 覽 | 89 | 懶 | 35 | | 攬 | 8 | 櫬 | 4 | ㄌㄞ | 爛 | 60 | 濫 | 12 | | 纏 | 5 | | | ㄌㄞ | 郎 | 70 | 狼 | 36 | | 廊 | 25 | 萐 | 7 | | 螂 | 5 | 鄉 | 4 | ㄌㄞ | 琅 | 3 | 榔 | 1 | | 朗 | 43 | | | ㄌㄞ | 稜 | 6 | 楞 | 2 | ㄌㄞ | 冷 | 208 | | | ㄌㄞ | 愣 | 4 | | | ㄌㄧ | 哩 | 13 | ㄌㄧ | 離 | 297 | 璃 | 96 | | 黎 | 75 | 犧 | 28 | | 梨 | 27 | 虧 | 15 | | 狸 | 15 | (狸) | 1 | | 厘 | 7 | (釐) | 3 | | 離 | 6 | 釐 | 6 | | 驪 | 4 | 漓 | 1 | | 灘 | 1 | | | ㄌㄧ | 裏 | 2330 | (裡) | 349 | | 理 | 787 | 里 | 396 | | 李 | 273 | 禮 | 253 | | 哩 | 14 | 涅 | 8 | | 澧 | 6 | 鯉 | 4 | ㄌㄧ | 力 | 1074 | 立 | 1021 | | 利 | 753 | 麗 | 298 | | 例 | 194 | 歷 | 136 | | 勵 | 59 | 曆 | 53 | | 粒 | 42 | 厲 | 40 | | 栗 | 27 | 吏 | 25 | ㄌㄧ | 六 | 1801 | 餚 | 6 | <p>【ㄌㄧ】 17</p> <table border="0"> <tr><td>𦥑</td><td>荔</td><td>9</td></tr> <tr><td>𦥑</td><td>俐</td><td>5</td></tr> <tr><td>𦥑</td><td>璣</td><td>5</td></tr> <tr><td>𦥑</td><td>靈</td><td>4</td></tr> <tr><td>𦥑</td><td>碟</td><td>4</td></tr> <tr><td>𦥑</td><td>荔</td><td>2</td></tr> <tr><td>𦥑</td><td>戾</td><td>2</td></tr> <tr><td>𦥑</td><td>懶</td><td>1</td></tr> <tr><td>𦥑</td><td>儻</td><td>1</td></tr> <tr><td>𦥑</td><td>儻</td><td>1</td></tr> <tr><td>𦥑</td><td>儻</td><td>1</td></tr> </table> <p>【ㄌㄧ】 16</p> <table border="0"> <tr><td>𦥑</td><td>哩</td><td>16</td></tr> </table> <p>【ㄌㄧ】 lia</p> <table border="0"> <tr><td>ㄌㄧ</td><td>𠵼</td><td>20</td></tr> </table> | 𦥑 | 荔 | 9 | 𦥑 | 俐 | 5 | 𦥑 | 璣 | 5 | 𦥑 | 靈 | 4 | 𦥑 | 碟 | 4 | 𦥑 | 荔 | 2 | 𦥑 | 戾 | 2 | 𦥑 | 懶 | 1 | 𦥑 | 儻 | 1 | 𦥑 | 儻 | 1 | 𦥑 | 儻 | 1 | 𦥑 | 哩 | 16 | ㄌㄧ | 𠵼 | 20 |
| ㄌㄞ | 來 | 4357 | 萊 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ㄌㄞ | 賴 | 41 | 瀨 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 癩 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ㄌㄞ | 雷 | 147 | 螺 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 彙 | 3 | 擂 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 鑄 | 1 | 贏 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ㄌㄞ | 壘 | 73 | 累 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 儡 | 14 | 裸 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 薈 | 2 | 未 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ㄌㄞ | 類 | 557 | 淚 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 𦥑 | 哩 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 劣 | 13 | 捩 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 療 | 48 | 聊 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 寥 | 8 | 撩 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ㄌㄧ | 溜 | 51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|------------|-------|-------------|-------|-----------------|-------|
| 廉 58 | 憐 56 | 蒼 1 | 綾 1 | 倫 4 | 侖 4 |
| 蓮 53 | 簾 7 | ㄌㄧㄥ 領 366 | 領 64 | 倫 3 | 侖 2 |
| 鰱 4 | 鑑 4 | ㄌㄧㄥ 令 231 | 另 215 | ㄌㄨㄣ 論 483 | |
| 漣 2 | 帘 1 | | | | |
| ㄌㄧㄤ 膾 185 | | | | | |
| ㄌㄧㄦ 練 393 | 鍊 48 | 【ㄌㄨ】 lu | | 【ㄌㄨㄥ】 long | |
| 煉 34 | 鍊 24 | ㄌㄨ 嘈 6 | | ㄌㄨㄥ 龍 271 | 隆 116 |
| 戀 7 | 殮 6 | ㄌㄨ 爐 50 | 盧 44 | 籠 45 | 曠 7 |
| 斂 4 | | 蘆 25 | 廬 10 | 瓈 7 | 聳 5 |
| | | 臚 10 | 瀘 5 | 臘 4 | 確 1 |
| | | 顛 3 | 鱸 2 | ㄌㄨㄥ 隘 29 | 𠀧 6 |
| | | ㄌㄨ 魯 194 | 虜 16 | 𠀧 3 | |
| ㄌㄧㄢ 林 740 | 臨 157 | ㄌㄨ 擄 1 | | ㄌㄨㄥ 弄 6 | |
| 鄰 118 | 麟 15 | 【ㄌㄨ】 路 1033 | 陸 390 | | |
| 淋 14 | 麟 14 | 錄 110 | 露 65 | 【ㄌㄨ】 lü | |
| 霖 10 | 磷 7 | 鹿 51 | 碌 14 | ㄌㄨ 驢 7 | 闊 1 |
| 琳 4 | 燔 2 | 祿 11 | 麓 9 | 枷 1 | |
| 馨 1 | | 鶯 3 | 漁 2 | ㄌㄨ 旅 115 | 呂 70 |
| ㄌㄧㄤ 凜 3 | 稟 2 | 戮 1 | | 屢 20 | 鋸 17 |
| 凜 1 | | | | 侶 7 | 縷 7 |
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| ム | ㄨ | 著 | 1 |
| 【ㄔㄨㄝ】 suo | | | |
| ム | ㄨㄝ | 縮 | 63 |
| ム | ㄨㄝ | 唆 | 3 |
| ム | ㄨㄝ | 箋 | 1 |
| ム | ㄨㄝ | 所 | 1575 |
| ム | ㄨㄝ | 鎖 | 20 |
| ム | ㄨㄝ | 梭 | 12 |
| ム | ㄨㄝ | 娑 | 3 |
| ム | ㄨㄝ | 箋 | 1 |
| ム | ㄨㄝ | 索 | 65 |
| ム | ㄨㄝ | 瑣 | 3 |
| 【ㄔㄨㄟ】 sui | | | |
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| ム | ㄨㄟ | 濉 | 97 |
| ム | ㄨㄟ | 隨 | 196 |
| ム | ㄨㄟ | 隋 | 16 |
| ム | ㄨㄟ | 擣 | 1 |
| ム | ㄨㄟ | 綏 | 1 |
| ム | ㄨㄟ | 緜 | 29 |
| ム | ㄨㄟ | 碎 | 43 |
| ム | ㄨㄟ | 穗 | 13 |
| ム | ㄨㄟ | 遂 | 9 |

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| 燧 2 | | 𩶓 2 | 𩶔 2 | |
| | | 𠂇 2 | 𠂇 1 | |
| | | 𠂇 1 | 𠂇 1 | |
| 【ム×ㄩ】 suan | | 𠂇 1 | 𠂇 1 | |
| ム×ㄩ 酸 82 | | | | |
| ム×ㄩ 算 348 | 蒜 11 | | | |
| 【ム×ㄣ】 sun | | | | |
| ム×ㄣ 孫 122 | 蓀 5 | | | |
| ム×ㄣ 損 70 | 桺 11 | | | |
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| 【ム×ㄥ】 song | | | | |
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| | 慤 1 | | | |
| ム×ㄥ 送 386 | 宋 87 | | | |
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| | 誦 8 | 餽 4 | | |
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| ㄛ 喔 26 | | | | |
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| | 餓 60 | 鄂 21 | | |
| | 厄 10 | 遇 7 | | |
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| | 埃 26 | 挨 25 | | |
| | 哎 19 | | | |
| ㄞ 握 1 | | | | |
| ㄞ 矮 42 | | 藪 10 | | |
| | 靄 4 | 唉 1 | | |
| ㄞ 愛 554 | | 艾 31 | | |
| | 礙 30 | (得 3) | | |
| | 叆 18 | 隘 5 | | |
| 【ㄠ】 ao | | | | |
| ㄠ 囧 12 | | 喚 2 | | |
| | 熬 1 | | | |
| ㄠ 熬 7 | | 鼈 5 | | |
| | 敖 3 | 遨 1 | | |
| | 𡇱 1 | | | |
| ㄠ 楊 13 | | 拗 2 | | |
| | 𠂇 79 | 奥地 71 | | |
| | 傲 24 | 懊 4 | | |
| 【ㄡ】 ou | | | | |
| ㄡ 歐 156 | | 甌 12 | | |
| | 殴 5 | | | |
| ㄡ 偶 21 | | 藕 5 | | |
| | 耦 1 | 嘔 1 | | |
| 【ㄞ】 an | | | | |
| ㄞ 安 698 | | 鞍 13 | | |
| | 菴 11 | 鋏 2 | | |
| | 氤 2 | 庵 1 | | |
| | 諳 1 | | | |
| ㄞ 案 241 | | 暗 181 | | |
| | 岸 178 | 按 118 | | |
| 【ㄞ】 en | | | | |
| ㄞ 恩 53 | | 恩 6 | | |
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| 【ㄤ】 ang | | | | |
| ㄤ 犹 27 | | | | |
| ㄤ 昂 28 | | | | |
| ㄤ 益 1 | | | | |
| 【ㄦ】 er | | | | |
| ㄦ 兒 1540 | | 而 1015 | | |
| ㄦ 爾 544 | | (爾 7) | | |
| | 耳 123 | 洱 7 | | |
| | 餌 3 | | | |
| ㄦ 二 4376 | | 貳 5 | | |
| 【ㄧ】 yi | | | | |
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| ㄧ 醫 246 | | 依 197 | | |
| | 伊 114 | 壹 9 | | |
| | 漪 2 | | | |
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| | 宜 136 | 儀 58 | | |
| | 疑 50 | 夷 27 | | |
| | 姨 16 | 胰 10 | | |
| | 貽 8 | 诒 7 | | |
| | 怡 7 | 诒 3 | | |
| | 沂 3 | 頤 2 | | |
| | 彝 2 | 痍 1 | | |
| | 飴 1 | | | |
| ㄧ 以 3500 | | 已 892 | | |
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| | 椅 85 | 蟻 59 | | |
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| ㄧ 意 840 | | 議 574 | | |
| | 義 499 | 易 280 | | |
| | 益 108 | 異 105 | | |

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| 羿 24 | 誼 23 | | | 燕 4 脣 3 |
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| 挹 1 | 鎰 1 | 窩 33 | 遙 30 | 瘤 1 |
| 腋 1 | | 謠 10 | 姚 9 | 1 ㄩ 眼 424 演 235 |
| | | 瑤 3 | 姚 3 | 掩 16 賾 6 |
| | | 餚 1 | | 鄆 5 奄 2 |
| | | 1 ㄩ 咬 48 | 杳 6 | 衍 2 優 1 |
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| | | | | 焰 13 彥 11 |
| | | 【1ㄡ】 you | | 晏 9 壞 8 |
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| 亾 央 243 秧 26 | 武 316 舞 125 | 薇 9 韋 6 | |
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| 瑛 7 鶠 5 | ㄨㄚ 瓦 87 | 【ㄨㄢ】 wan | |
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| 亩 影 330 穎 11 | 幹 3 | 綰 2 眇 1 | |
| 亩 應 278 硬 61 | 【ㄨㄢ】 wai | ㄨㄢ 萬 529 腕 8 | |
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| 妄 9 | 旺 7 | 禦 14 | 毓 12 | | |
| 【𠂇】 weng | | | | | |
| 𠂇 翁 60 | 鴻 14 | 寓 11 | 浴 11 | | |
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| 𠂇 淤 7 | 迂 4 | 豫 6 | 峪 6 | | |
| 𠂇 於 1298 | 魚 253 | 御 5 | 與 5 | | |
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| 榆 18 | 于 16 | 聿 1 | 堽 1 | | |
| 娛 16 | 逾 11 | | | | |
| 瑜 9 | 竽 8 | | | | |
| 俞 7 | 虞 6 | | | | |
| 輿 6 | 愚 5 | | | | |
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| 臾 2 | 萸 1 | | | | |
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| | | 悅 10 | 鍼 1 | | |
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| 𠂇 宛 3 | 薦 3 | | | 蛹 13 | 詠 9 |
| 𠂇 鴛 2 | | | | (咏 2) | 甬 6 |
| 𠂇 原 830 | 員 780 | | | 蹠 3 | 恵 1 |
| | | | | 𠂇 用 2695 | 佣 3 |

APPENDIX III. COMPUTER PROGRAMME USED IN THIS SURVEY

```

*ALGO1.LRN-HKC-180, HO KHOK CHEUNG
.RUN BY BABS-H MARK 3
DATE : 16/01/75 TIME : 18.24.43

*TRACE 1
*TIME 100
STATEMENT NO.
0   'BEGIN';
1   'INTEGER' I,J,K,VARI,RB,RP,RM,RF,RD,RT,RN,RL,RZ,RC,RS,RZH,RSH,RR,
2     RJ,RO,RX,RG,RK,RH,RD0,
3     RA,PO,PE,RII,RV,REB,RAI,RAO,ROU,PAR,REN,RANG,RENG,RONG,
4     PT,RIA,PIAO,RIE,RIOU,PTAN,RIN,RIANG,PING,RIONG,
5     OU,RIA,RUO,RIAT,RIET,RUAN,PUEN,RIANG,RIENG,
6     RY,RYF,RYAN,RYN,   R1,R2,R3,R4,RO,   SP,STAR,XNI,
7     X1,X2,X3,X4,X0,   XA,XB,XC,XD,XE,XF,XG,XH,XI,XJ,XK,XL,XM,XN,XO,XP,XQ,
8     XR,XS,XT,XU,XV,XW,XX,XY,XZ,XH1,STOP,INCR;
9     'ARRAY' A[1:9];
10    XEL:=CODE('E');
11    STOP:=CODE('($)');
12    STAR:=CODE('(':');
13    XHT:=CODE('(-)');
14    SP:=CODE('('X')");
15    X0:=CODE('('0")');
16    X1:=CODE('('1")');
17    X2:=CODE('('2")');
18    X3:=CODE('('3")');
19    X4:=CODE('('4")');
20    XA:=CODE('('A")');
21    XB:=CODE('('B")');
22    XC:=CODE('('C")');
23    XD:=CODE('('D")');
24    XE:=CODE('('E")');
25    XF:=CODE('('F")');
26    XG:=CODE('('G")');
27    XH:=CODE('('H")');
28    XI:=CODE('('I")');
29    XJ:=CODE('('J")');
30    XK:=CODE('('K")');
31    XL:=CODE('('L")');
32    XM:=CODE('('M")');
33    XN:=CODE('('N")');
34    XO:=CODE('('O")');
35    XP:=CODE('('P")');
36    XQ:=CODE('('Q")');
37    XR:=CODE('('R")');
38    XS:=CODE('('S")');
39    XT:=CODE('('T")');
40    XU:=CODE('('U")');
41    XV:=CODE('('V")');
42    XW:=CODE('('W")');
43    XX:=CODE('('X")');
44    XY:=CODE('('Y")');
45    XZ:=CODE('('Z")');
46    RP:=#0;PM:=#0;RF:=#0;RD:=#0;PT:=#0;RL:=#0;RZ:=#0;RC:=#0;RS:=#0;RZH:=#0;
47    RCH:=#0;RH:=#0;RP:=#0;RJ:=#0;RO:=#0;RX:=#0;RG:=#0;RK:=#0;RN:=#0;R00:=#0;
48    RN:=#0;   RA:=#0;RO:=#0;RE:=#0;RII:=#0;RV:=#0;RER:=#0;PAI:=#0;PEI:=#0;RA0:=#0;
49    ROU:=#0;PAR:=#0;REN:=#0;RANG:=#0;PENG:=#0;RONG:=#0;
50    RI1:=#0;RIA:=#0;PIAO:=#0;RTE:=#0;RIOU:=#0;RIAN:=#0;RIN:=#0;RING:=#0;RIANG:=#0;
51    RIONG:=#0;
52    RU:=#0;RU1:=#0;RU0:=#0;RUAI:=#0;RUFI:=#0;RUAN:=#0;RUFN:=#0;RHANG:=#0 ;
53    RUFG:=#0;   RV:=#0;RYE:=#0;RYAN:=#0;RYN:=#0;   R1:=#0;R2:=#0;R3:=#0;R4:=#0;RD:=#0;
54    INCR:=#0;
55    'FOR' K:=1 'STEP' 1 'UNTIL' 1000 'DO'
56    'BEGIN'
57    I:=1;
58    LOOP;
59    A(I1):=RFAD CH;
60    'IF' A(I1)=SP 'THEN' 'BEGIN' I:=1; 'GOTO' LOOP 'END';
61    'IF' A(I1)=XF 'THEN' 'REGIN' I:=1; 'GOTO' LOOP 'END';
62    'IF' A(I1)=STOP 'THEN' 'GOTO' F0J;
63    'IF' A(I1)=STAR 'THEN' 'GOTO' EXITI;
64    I:=I+1;
65    'IF' I>R 'THEN' 'GOTO' EXITI;
66    'GOTO' LOOP;
67    EXITI:
68    'FOR' J:=I+1 'STEP' 1 'UNTIL' R 'DO' A[IJ]:=SP;
69    A[91]:=RFAD; 'GOTO' EXAMI;
70    EXITI;
71    A[91]:=READ; 'GOTO' EXAMI;
72    EXAMI:
73    'IF' A[1]=XA 'THEN' 'BEGIN' P00:=R00+A[9]; 'GOTO' EXAMA 'END';
74    'IF' A[1]=XF 'THEN' 'BEGIN' P00:=R00+A[9]; 'GOTO' EXAMA 'END';
75    'IF' A[1]=XL 'THEN' 'REGIN' R00:=R00+A[9]; 'GOTO' EXAMA 'END';
76    'IF' A[1]=XR 'THEN' 'REGIN' R00:=R00+A[9]; 'GOTO' EXAMA 'END';
77    'IF' A[1]=XY 'THEN' 'REGIN' R00:=R00+A[9]; 'GOTO' EXAMA 'END';
78    'IF' A[1]=XM 'THEN' 'REGIN' R00:=R00+A[9]; 'GOTO' EXAMB 'END';
79    'IF' A[1]=XD 'THEN' 'REGIN' RD:=RD+A[9]; 'GOTO' EXAMB 'END';
80    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
81    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
82    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
83    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
84    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
85    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
86    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
87    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
88    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
89    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
90    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
91    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
92    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
93    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
94    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
95    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
96    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
97    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
98    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
99    'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
100   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
101   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
102   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
103   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
104   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
105   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
106   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
107   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
108   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
109   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
110   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
111   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
112   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
113   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
114   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
115   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
116   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
117   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
118   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
119   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
120   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
121   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
122   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
123   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
124   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
125   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
126   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
127   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
128   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
129   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
130   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
131   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
132   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
133   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
134   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
135   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
136   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
137   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
138   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
139   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
140   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
141   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
142   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
143   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
144   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
145   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
146   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
147   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
148   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
149   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
150   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
151   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
152   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
153   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
154   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
155   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
156   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
157   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';
158   'IF' A[1]=XT 'THEN' 'REGIN' RT:=RT+A[9]; 'GOTO' EXAMB 'END';

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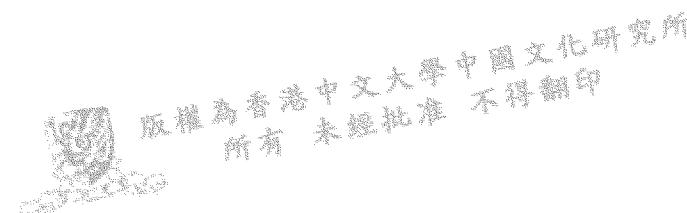
161   'IF' A[1]=XN 'THEN' 'BEGIN' PN:=RN+A[9]; 'GOTO' EXAMB 'END';
164   'IF' A[1]=XN 'THEN' 'BEGIN' RL:=PL+A[9]; 'GOTO' EXAMB 'END';
167   'IF' A[1]=XN 'THEN' 'BEGIN' RR:=PR+A[9]; 'GOTO' EXAMB 'END';
170   'IF' A[1]=XX 'THEN' 'BEGIN' RJ:=RJ+A[9]; 'GOTO' EXAMB 'END';
173   'IF' A[1]=XG 'THEN' 'BEGIN' RQ:=RQ+A[9]; 'GOTO' EXAMB 'END';
176   'IF' A[1]=XG 'THEN' 'BEGIN' RG:=RG+A[9]; 'GOTO' EXAMB 'END';
179   'IF' A[1]=XH 'THEN' 'BEGIN' RK:=RK+A[9]; 'GOTO' EXAMB 'END';
182   'IF' A[1]=XH 'THEN' 'BEGIN' RH:=RH+A[9]; 'GOTO' EXAMB 'END';
185   'IF' A[1]=XH 'THEN' 'BEGIN' RS:=RH+A[9]; 'GOTO' EXAMB 'END';
188   'IF' A[1]=XZ 'THEN' 'BEGIN' 'IF' A[2]=XH 'THEN' 'BEGIN'
190     RZH:=RZH+A[9]; 'GOTO' EXAMB 'END';
191   'ELSE' 'BEGIN' RZ:=RZ+A[9]; 'GOTO' EXAMB 'END'; 'END';
195   'IF' A[1]=XC 'THEN' 'BEGIN' 'IF' A[2]=XH 'THEN' 'BEGIN'
197     RCH:=RCH+A[9]; 'GOTO' EXAMB 'END';
198   'ELSE' 'BEGIN' RC:=RC+A[9]; 'GOTO' EXAMB 'END'; 'END';
202   'IF' A[1]=XS 'THEN' 'BEGIN' 'IF' A[2]=XH 'THEN' 'BEGIN'
204     RSH:=RSH+A[9]; 'GOTO' EXAMB 'END';
205   'ELSE' 'BEGIN' RS:=RS+A[9]; 'GOTO' EXAMB 'END'; 'END';
209   NEWLINE(10);
210   WRITE TEXT ('("ERROR:XXX")');
211   'FOR' I:=1 'STEP' 1 'UNTIL' 8 'DO' PRINTCH A[I];
212   PRINT A[9],5,0;
213   I:=I; 'GOTO' LOOP;
215 EXAMA:
216 I:=I; 'GOTO' EXAMB;
217 EXAMB:
218 I:=I; 'GOTO' EXAMC;
219 EXAMC:
220 I:=I; 'GOTO' EXAMH;
221 EXAMH:
222   'IF' A[1]=XH 'THEN' 'BEGIN' RII:=RII+A[9]; I:=I+1; 'GOTO' EXHYME 'END';
225   'IF' A[1]=XH 'THEN' 'BEGIN' RV:=RV+A[9]; 'GOTO' EXHYME 'END';
228   'IF' A[1]=XA 'THEN' 'GOTO' FXA;
229   'IF' A[1]=XE 'THEN' 'GOTO' FXE;
230   'IF' A[1]=XH 'THEN' 'GOTO' EXI;
231   'IF' A[1]=XO 'THEN' 'GOTO' EXO;
232   'IF' A[1]=XU 'THEN' 'GOTO' EXU;
233   'IF' A[1]=XY 'THEN' 'GOTO' FXY;
234
235   NEWLINE(10);
236   WRITE TEXT ('("ERROR:XXX")');
237   'FOR' I:=1 'STEP' 1 'UNTIL' 8 'DO' PRINTCH A[I];
238   PRINT A[9],5,0;
239   I:=I; 'GOTO' LOOP;
240 EXA:
241 I:=I+2;
242   'IF' A[1]=XG 'THEN' 'BEGIN' RANG:=RANG+A[9]; 'GOTO' EXHYME 'END';
243   'ELSE' 'BEGIN' I:=I-1;
244     'IF' A[1]=XN 'THEN' 'BEGIN' RAN:=RAN+A[9]; 'GOTO' EXHYME 'END';
245     'IF' A[1]=XI 'THEN' 'BEGIN' RA1:=RA1+A[9]; 'GOTO' EXHYME 'END';
246     'IF' A[1]=XO 'THEN' 'BEGIN' RA0:=RA0+A[9]; 'GOTO' EXHYME 'END';
247     RA:=RA+A[9]; I:=I-1; 'GOTO' EXHYME;
248   'END';
249 EXF:
250 I:=I+2;
251   'IF' A[1]=XG 'THEN' 'BEGIN' RENG:=RENG+A[9]; 'GOTO' EXHYME 'END';
252   'ELSE' 'BEGIN' I:=I-1;
253     'IF' A[1]=XN 'THEN' 'BEGIN' REN:=RFN+A[9]; 'GOTO' EXHYME 'END';
254     'IF' A[1]=XI 'THEN' 'BEGIN' RF1:=RF1+A[9]; 'GOTO' EXHYME 'END';
255     'IF' A[1]=XO 'THEN' 'BEGIN' RF2:=RF2+A[9]; 'GOTO' EXHYME 'END';
256     RE:=RF+A[9]; I:=I-1; 'GOTO' EXHYME;
257   'END';
258 EXO:
259 I:=I+1;
260   'IF' A[1]=XU 'THEN' 'BEGIN' ROU:=ROU+A[9]; 'GOTO' EXHYME 'END';
261   'IF' A[1]=XN 'THEN' 'BEGIN' RONG:=RONG+A[9];
262   I:=I+1; 'GOTO' EXHYME;
263   RO:=RO+A[9]; I:=I-1; 'GOTO' EXHYME;
264 EXY:
265 I:=I+1;
266   'IF' A[1]=XA 'THEN' 'BEGIN' RYAN:=RYAN+A[9]; I:=I+1;
267   'GOTO' EXHYME 'END';
268   'IF' A[1]=XE 'THEN' 'BEGIN' RYE:=RYE+A[9]; 'GOTO' EXHYME 'END';
269   'IF' A[1]=XH 'THEN' 'BEGIN' RYN:=RYN+A[9]; 'GOTO' EXHYME 'END';
270   RY:=RY+A[9]; I:=I-1; 'GOTO' EXHYME;
271 EXI:
272 I:=I+1;
273   'IF' A[1]=XF 'THEN' 'BEGIN' RIF:=RIF+A[9]; 'GOTO' EXHYME 'END';
274   'IF' A[1]=XN 'THEN' 'BEGIN' I:=I-1;
275   'IF' A[1]=XG 'THEN' 'BEGIN' RING:=RING+A[9]; 'GOTO' EXHYME 'END';
276   'ELSE' 'BEGIN' PIN:=PIN+A[9]; I:=I-1; 'GOTO' EXHYME 'END';
277   'END';
278   'IF' A[1]=XO 'THEN' 'BEGIN' I:=I+1;
279   'IF' A[1]=XU 'THEN' 'BEGIN' RIOU:=RIOU+A[9]; 'GOTO' EXHYME 'END';
280   'ELSE' 'BEGIN' RIONG:=RIONG+A[9]; I:=I+1; 'GOTO' EXHYME 'END';
281   'END';
282   'IF' A[1]=XA 'THEN' 'BEGIN' I:=I+2;

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325     'IF' A[1]=XG 'THEN' 'BEGIN' RIAANG:=RIANG+A[9]; 'GOTO' EXHYME 'END'
327     'ELSE' 'BEGIN' I:=I-1;
329     'IF' A[1]=XX 'THEN' 'BEGIN' RIANG:=RIANG+A[9]; 'GOTO' EXHYME 'END';
332     'IF' A[1]=XO 'THEN' 'BEGIN' RIAO:=RIA+A[9]; 'GOTO' EXHYME 'END';
335     'IF' I=1; RIA:=RIA+A[9]; 'GOTO' EXHYME 'END';
338     'END';
339     I:=I-1; RIA:=RIA+A[9]; 'GOTO' EXHYME;
342     EXHME;
342     I:=I+1;
343     'IF' A[1]=XA 'THEN' 'REGIN' I:=I+2;
345     'IF' A[1]=XG 'THEN' 'BEGIN' RUANG:=RUANG+A[9]; 'GOTO' EXHYME 'END';
347     'ELSE' 'BEGIN' I:=I-1;
349     'IF' A[1]=XN 'THEN' 'BFGTN' RUAN:=RUAN+A[9];
351     'GOTO' EXHYME 'END';
352     'IF' A[1]=XI 'THEN' 'REGIN' RUAI:=RUAI+A[9];
354     'GOTO' EXHYME 'END';
354     'ELSE' 'REGIN' I:=I-1;
356     RUA:=RUA+A[9]; 'GOTO' EXHYME 'END';
358     'END';
360     'IF' A[1]=XF 'THEN' 'REGIN' I:=I+2; 'IF' A[1]=XG
362     'THEN' 'REGIN' RUENG:=RUENG+A[9]; 'GOTO' EXHYME 'END';
364     'ELSE' 'REGIN' I:=I-1; 'IF' A[1]=XN
366     'THEN' 'REGIN' RUEN:=RUEN+A[9]; 'GOTO' EXHYME 'END';
368     'IF' A[1]=XI
369     'THEN' 'BEGIN' RUEI:=RUEI+A[9]; 'GOTO' EXHYME 'END';
372     'END';
372     'END';
373     'IF' A[1]=XO 'THEN' 'REGIN' PUO:=RUO+A[9]; 'GOTO' EXHYME 'END';
375     'ELSE' 'REGIN' RU:=RUA+A[9]; I:=I-1; 'GOTO' EXHYME 'END';
379     EXHYME;
379     I:=I+1;
380     'IF' A[1]= X1 'THEN' 'BEGIN' R1:=R1+A[9]; 'GOTO' FINISH; 'END';
384     'IF' A[1]= X2 'THEN' 'BEGIN' R2:=R2+A[9]; 'GOTO' FINISH; 'END';
388     'IF' A[1]= X3 'THEN' 'BEGIN' R3:=R3+A[9]; 'GOTO' FINISH; 'END';
392     'IF' A[1]= X4 'THEN' 'BEGIN' R4:=R4+A[9]; 'GOTO' FINISH; 'END';
396     'IF' A[1]= XO 'THEN' 'BEGIN' R0:=R0+A[9]; 'GOTO' FINISH; 'END';
400     NEWLINE(10);
401     WRITF TEXT ('(''ERROR:XXX'')');
402     'FOR' I:=1 'STEP' 1 'UNTIL' R 'DO' PRINTCH(A[I]);
403     PRINT (A[91],5,0);
404     I:=I; 'GOTO' LOOP;
406     FINISH;
406     'FOR' I:=1 'STEP' 1 'UNTIL' R 'DO' PRINTCH(A[I]);
407     PRINT(A[91],5,0);
408     SPACE(5);
409     INCR:=INCR+1;
410     'IF' INCR=5 'THEN' 'REGIN' NEWLINE(1); INCR:=0 'END';
413     'END';
414     E01;
414     'FOR' VARI:=RN,RP,RM,RF,PD,RT,RN,RL,RZ,RC,RS,RZH,RCH,PSH,RR,
414     RJ,RD,RX,RG,RK,RH,RD,
414     RA,PO,RF,RIT,RV,RER,RAT,PEI,PAO,ROU,RAN,REN,RANG,RFNG,RONG
414     'DO' 'REGIN' NEWLINE(1);
416     PRINT(VARI,6,0) 'END';
417     'FOR' VARI:=
417     RT,RTA,X1AO,RIE,RION,RIAN,RIN,RIANG,RING,RIONG,
417     RU,RUA,RUO,RUAT,RUET,RUAN,RUEN,RUANG,RUENG,
417     RV,RYE,RVAN,RYN, P1,R2,R3,R4,RO
417     'DO' 'BEGINTN' NEWLINE(1);
419     PRINT(VARI,6,0) 'END';
420     'END';

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中國文化研究所
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漢語常用音素之研究

(中文摘要)

何國祥

本研究之主要工作在統計漢語（國語）各音素在七十五萬字資料中所出現之次數，並分析其分配狀態；提供具體數字與圖表，以便讀者閱覽及作進一步分析之根據。這種研究工作不但有利於改進中文速記，而且對拼音化中文打字機的鍵盤設計，和漢字電腦化輸入程式的分析，也有參考價值。

此項研究所根據之次級資料是國立編譯館一九六七年出版之《國民學校常用字彙研究》。該字彙研究由毛子水、何容、齊鐵恨、蔡樂生等十數位語言、文字、教育、統計、心理各方面的專家領導，歷時四年，方克完成。其於資料之選取，範圍甚廣，包括報章、國民學校課本、兒童作品、課外讀物、廣播稿和民衆讀物等六種資料計約七十五萬字。本研究即根據其分析該等漢字之字音及統計每字之出現次數而作者。例如：該書指出出現次數最多的是「的」ㄉ (dē) 字，計達 26,938 次，本研究即在聲母ㄉ (d)、韻母ㄉ (e) 及輕聲項下各加 26,938 次。（至於出現只一次的，則有 565 字。）

漢語語音有聲母、韻母和聲調三種音素成份，韻母又可再分爲介音、主要元音及韻尾。

爲求減少計算錯誤與節省時間起見，本研究採用電腦進行音素統計之主要工作，即聲母、韻母和聲調的計算。至於介音、主要元音、韻尾、羅馬字母、注音符號和音節等統計則爲電腦計算結果之進一步分析與歸納。茲將本研究所得結果，簡述如次（所用音素以拼音方案和注音符號表示）：

（一）聲母：七十五萬字資料中，沒有聲母的有十一萬，相當於總數的 15%。其他有聲母者，/d/ ㄉ 之出現次數最多，佔全部資料之 10%，其次爲 /sh/ ㄕ (7.81%)、/j/ ㄐ (6.38%)，較不常用的是 /t/ ㄊ (1.94%)、/c/ ㄉ (1.13%) 和 /p/ ㄈ (1.00%)。

據統計，漢語中的 /zh/ ㄓ 、 /ch/ ㄔ 、 /sh/ ㄕ 、 /r/ ㄖ ； /z/ ㄗ 、 /c/ ㄘ 、 /s/ ㄙ 和 /j/ ㄐ 、 /q/ ㄑ 、 /x/ ㄒ 三組音之總出現次數，佔全部資料的 40%；換言之，若不能善於把握此等聲母，則每說十個音便有四個犯錯或令人誤解的可能。

(二) 韻母：最常用的韻母是 /e/ ㄝ ，佔總次數的 9.28%，其次是 /i/ ㄧ (9.25%) 、 /u/ ㄨ (6.59%) 、 /v/ 〔 ㄡ 〕 (5.44%) 、 /uo/ ㄩ (4.44%) 、 /a/ ㄚ (4.41%) ，較不常用的是 /io/ ㄧ (ㄩ) 和 /iai/ ㄧ (ㄞ) ，各佔總數的 0.001% 而已。韻母再分為介音、主要元音及韻尾，分述如下：

(1) 介音：據研究所得，絕大多數 (72%) 漢字沒有介音，其他有 [-i-] ㄧ 介音的出現次數佔總次數的 15%，有 [-u-] ㄨ 介音的佔 11%，[-y-] ㄩ 介音最少用，只佔總數的 2%。

(2) 主要元音：本研究對主要元音統計，分別採用國際音標、漢語拼音和注音符號（單韻母）三個系統分析：

(a) 國際音標：最常用的是 [i] ，佔 14.39%，其次是 [ɛ] (13.72%) 、 [a] (10.91%) 、 [ɑ] (10.47%) ，較少用的是 [y] 和 [ə] ，各佔 2.31% 和 1.69%。

(b) 漢語拼音：展唇元音 /a/ 、 /e/ 、 /i/ 之總出現次數佔全部資料的 80%，遠較圓唇元音 /o/ 、 /u/ 、 /ü/ 為常用。其個別百分比為 /a/ 31% 、 /e/ 24% 、 /i/ 22% 、 /o/ 14% 、 /u/ 7% 、 /ü/ 2% 。

(c) 注音符號：ㄞ 為最常用的單韻母，出現次數佔總次數的 10%，ㄩ 及 ㄉ 為罕用單韻母，分別佔 2% 及 1%。

(3) 韵尾：據統計，沒有韻尾之字音數目佔總次數的 45%，其餘 52% 有韻尾字音中，鼻音韻尾 /-n/ 、 /-ŋ/ 最常用，佔 17% 和 15%，較少用的是 /-l/ ，只佔統計資料的 1%。

(三) 聲調：漢語五個聲調中（包括輕聲），去聲在全部資料中的出現次數最多，佔總次數的 34%，其次是陰平 (21%) 、陽平 (20%) 、上聲 (18%) 和輕聲 (6%)。

(四) 羅馬字母和注音符號：漢語拼音方案所用的羅馬字母有 26 個（包括 ü ），最常用的是 i ，佔全部字母數的 14%，其次是 n 、 a 、 u 、 e 。有趣的是，英語常用的 e (13%) 在漢語（拼音方案）中只位列第五 (7%)，漢語常用的 i (14%) 在英語中亦剛好位居第五 (7%)。

至於常用的注音符號則為 ㄧ 和 ㄨ ，佔符號出現總數的 13% 和 9%，出現次數最少的是 ㄉ ，只佔總數的 0.4% 。

(五) 音節和同音字：本研究所用次級資料共有音節1,153個，不同之漢字4,862字。

四聲中（輕聲不計），上聲的音節最多，有325個，但其總出現次數及所收漢字數則為四聲中之最少者。

(六) 音節平均長度：漢語拼音音節之長短視所用系統不同而異。據統計，採用注音符號之漢語音節平均長度最短，只有兩個符號；至於採用拼音方案，則每音節平均需要三個羅馬字母表示。

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