```
/*
 1
 2
       資料結構HWK3字典
3
           建構字典
 4
 5
       架構
           1.建置資料庫
 6
 7
           2.目標直接搜尋
 8
 9 */
10 #include <iostream>
11 #include <fstream>
12
13 #define word_n 57
14
15 using namespace std;
16
17 struct words
18 {
19
       string english_word, chinese_word;
20 };
21
22 struct word_table
23 {
24
       int word_total = 0;
25
       words word[200];
26 };
27
28 void read_date(word_table table_date[])
29 {
30
       int id, ch_t = 0;
31
       string in_english, in_chinese;
32
       ifstream InF;
33
       char FName[20], ch;
34
35
       cout << "輸入檔名: ";
       cin >> FName;
36
37
       InF.open(FName, ios::in);
38
39
40
       if (!InF)
41
       {
42
           cout << "檔案無法開啟\n";
43
           exit(1);
44
       }
45
       else
46
       {
47
           while (InF.get(ch))
48
49
               if (ch_t++ < 20) in_english += ch;
               else if (ch_t++ \ge 20 \&\& ch != '\n') in_chinese += ch;
50
51
               else if (ch = '\n')
52
53
                   ch_t = 0;
```

```
54
55
                     id = in_english[0] * in_english[1] % word_n;
56
                     table_date[id].word[table_date[id].word_total].english_word =
                       in_english;
57
                     table_date[id].word[table_date[id].word_total++].chinese_word =
                       in_chinese;
58
                     //cout << in_english << " " << in_chinese << " id = " << id << endl;
59
60
                     in_english = "";
61
                     in_chinese = "";
62
63
64
             InF.close();
65
66
         }
67 }
68
69 void print_all(word_table table_date[])
70 {
71
         for (int i = 0; i < word_n; i++)
72
             cout << "i = " << i << endl;
73
74
             for (int j = 0; j < table_date[i].word_total; j++)</pre>
75
             {
76
                 cout << table_date[i].word[j].english_word;</pre>
77
                 cout << table_date[i].word[j].chinese_word << endl;</pre>
78
79
             cout << endl;
80
         }
81 }
82
83 void search(word_table table_date[], string search_word)
84
85
        bool op = false;
86
         int id = search_word[0] * search_word[1] % word_n;
87
         for (int i = search_word.size(); i < 20; i++)
88
89
             search word += ' ';
90
91
         for (int j = 0; j < table_date[id].word_total; j++)</pre>
92
93
             if (table_date[id].word[j].english_word == search_word)
94
             {
95
                 op = true;
96
                 cout << table_date[id].word[j].chinese_word << endl;</pre>
                 cout << "共搜尋" << j << "次" << endl;
97
98
             }
99
         if (op == true) cout << "搜尋完成" << endl;
100
101
        else cout << "查無資料" << endl;
102 }
103
104 int main(void)
```

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...d4\Documents\學校\資料結構\HWK\2-HWK3\HWK3\HWK3\b10702057.cpp
105 {
106
        string search_word;
        word_table table_date[word_n];
107
108
109
        read_date(table_date);
110
        //print_all(table_date);
111
        bool op = true;
112
        while (op != false)
113
114
        {
            cout << "請輸入要搜尋字串:" << endl;
115
116
            cin >> search_word;
117
            search(table_date, search_word);
            cout << "是否再次使用(y/n)" << endl;
118
119
            string next = "";
            cin >> next;
120
            if (next[0] = 'y' | I | next[0] = 'Y') op = true;
121
122
            else op = false;
123
        }
124 }
```