1.

`


```
HW7_bonus - Microsoft Visual Studio
檔案(F)  編輯(E)  檢視(V)  專案(P)  建置(B)  偵錯(D)  小組(M)  工具(T)  測試(S)  分析(N)

Debug   ▼   x86        ▼   ▶ 本機 Windows 偵錯工

HW7_bonus.cpp  ⊡ ✕
HW7_bonus                                    ▼   (全域範圍)

43         }
44     }
45
46     if (length < 12) {
47         printf("please enter at least 12 passwords.\n");
48         key = 0;
49     }
50     if (number < 2) {
51         printf("please enter at least 2 digits.\n");
52         key = 0;
53     }
54     if (alphaB < 2 || alphaS < 2) {
55         printf("please enter at least 2 lowercase alphabets and uppercase alphabets.\n");
56         key = 0;
57     }
58     if (reg) {
59         printf("please don't input punctuation marks:");
60         for (int i = 0; i < j; i++) {
61             printf("%c ", record[i]);
62         }
63         printf("\n");
64         key = 0;
65     }
66     if (reg2) {
67         printf("please don't input space.\n");
68         key = 0;
69     }
70     if (reg3) {
71         printf("please don't input chinese characters.\n");
72         key = 0;
73     }
74     if (key) {
75         printf("you've entered a valid password%s\n", arr);
76         printf("digits:%d\n", number);
77         printf("uppercase:%d\n", alphaB + alphaS);
78         printf("uppercase:%d\n", alphaB);
79         printf("lowercase:%d\n", alphaS);
80     }
81     if (!key) {
82         printf("please input your password again with correct form.\n");
83     }
84     system("pause");
85     return 0;
86 }

20 %  ▼
```

檔案(F)　編輯(E)　檢視(V)　專案(P)　建置(B)　偵錯(D)　小組(M)　工

Debug ▾　x86

HW7_bonus.cpp

HW7_bonus

```c
#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
#include <string.h>
int main()
{
    char arr[100], record[100];
    unsigned long long ch[100];
    bool key = 1;
    printf("please enter your passwords:\n");
    gets_s(arr);
    printf("your input is :%s\n", arr);


    int length, number = 0, alphaB = 0, alphaS = 0, j= 0;
    bool reg = 0, reg2 = 0 ,reg3 = 0;
    length = strlen(arr);
    for (int i = 0; i < length; i++) {
        ch[i] = arr[i];
    }
    for (int i = 0; i < length; i++) {
        if (isdigit(arr[i])) {
            number++;
        }
        if (isalpha(arr[i])) {
            if (isupper(arr[i])) {
                alphaB++;
            }
            else if (islower(arr[i])) {
                alphaS++;
            }
        }
        if (!isascii(arr[i])) {
            reg3 = 1;
        }
        if (isspace(arr[i])) {
            reg2 = 1;
        }
        if (ispunct(arr[i])) {
            reg = 1;
            record[j] = arr[i];
            j++;
        }
    }
```

執行結果

```
please enter your passwords:
JKJEPFIjfiweop564894
your input is :JKJEPFIjfiweop564894
you've entered a valid passwordJKJEPFIjfiweop564894
digits:6
uppercase:14
uppercase:7
lowercase:7
Press any key to continue . . .
```