

## 1 Counting Numbers of Uppercase Characters

```
1  /*=====
2  * FileName: counter.c
3  * Author   : Shaobin Li <shawpinlee@gmail.com>
4  * Date      : 2007-09-13
5  * Description: count numbers of uppercase
6  * characters from input streams, and output
7  * the numbers respectively.
8  *=====*/
9  #include <stdio.h>
10 #include <stdbool.h>
11 #include <ctype.h>
12
13 #define SIZE 26
14
15 int
16 main (int argc, char *argv[])
17 {
18     int array[SIZE];
19     int i;
20     char c;
21
22     for (i = 0; i < SIZE; i++)
23         array[i] = 0;
24
25     while ((c = getchar ()) != EOF)
26     {
27         if (isupper (c))
28         {
29             array[c - 'A']++;
30         }
31     }
32     for (i = 0; i < 26; i++)
33         printf ("%c:%5d\n", (char) ('A' + i), array[i]);
34
35     return 0;
36 }
```