

countChars

Write a C program that reads in character by character from an input source, until '#' is entered. The output of the program is the number of English letters and the number of digits that appear in the input.

A sample program template is given below:

```
#include <stdio.h>
int main()
{
    /* Write your code here */
    return 0;
}
```

Some sample input and output sessions are given below:

- (1) Test Case 1:
Enter your characters (# to end):
happy 34567 fans#
The number of digits: 5
The number of letters: 9
- (2) Test Case 2:
Enter your characters (# to end):
1a2b3c#
The number of digits: 3
The number of letters: 3
- (3) Test Case 3:
Enter your characters (# to end):
happy#
The number of digits: 0
The number of letters: 5
- (4) Test Case 4:
Enter your characters (# to end):
34567#
The number of digits: 5
The number of letters: 0

```
#include <stdio.h>
int main()
{
    int letters = 0;
    int digits = 0;
    char c;

    printf("Enter your
characters (# to end):\n");
    while(c!='#')
    {
        scanf("%c",&c);
        if('0'<=c&&c<='9')
        {
            digits++;
        }
        else if('a'<=c&&c<='z')
        {
            letters++;
        }
    }
    printf("The number of
digits: %d\n",digits);
    printf("The number of
letters: %d\n",letters);

    return 0;
}
```