

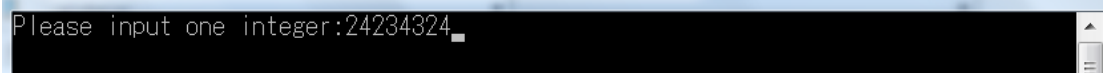
Practice 3-2 (2016/10/4)

Friendly and Smart Interactive Query – (II)

1. Problem 2

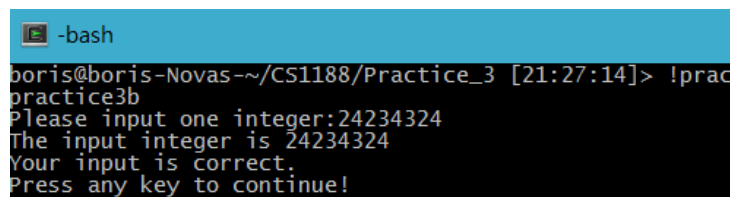
Use `getchar()` only rather than `scanf()` + `getchar()` to receive an integer from users. Notice: Do not put the newline character of input characters into your garbage message, or your prompt message will look messed. Remember to clear the screen before starting a new iteration of query (right after pressing any key to continue). Since you only can use `getchar()` to read one character at a time, you need to transform a series of characters into an integer. For instance, as you input 123, your program reads 3 characters '1', '2', and '3' sequentially. Then you need to transform these three characters into an integer 123.

a. The program starts a query for one integer.



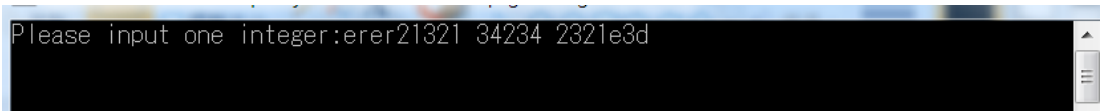
```
Please input one integer:24234324_
```

b. The program recognize one integer and there is no garbage characters.



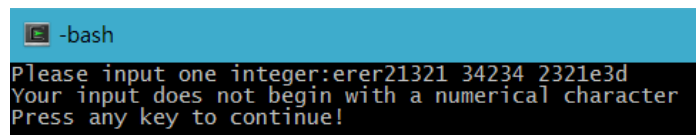
```
-bash
boris@boris-Novas-~/CS1188/Practice_3 [21:27:14]> !prac
practice3b
Please input one integer:24234324
The input integer is 24234324
Your input is correct.
Press any key to continue!
```

c. The program initiates a new query after users press any key.



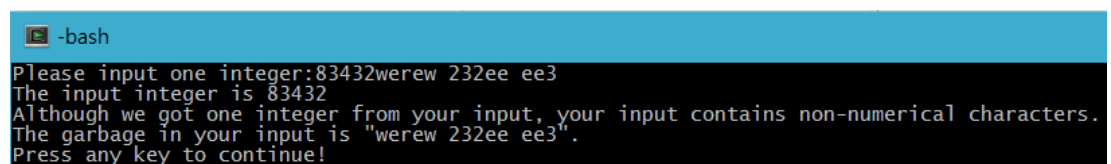
```
Please input one integer:erer21321 34234 2321e3d
```

d. The program cannot recognize any integer and prompt a message for this situation.



```
-bash
Please input one integer:erer21321 34234 2321e3d
Your input does not begin with a numerical character
Press any key to continue!
```

e. The program initiates a new query after users press any key. And it recognizes one integers but there are remaining garbage characters. Show three messages for this situation.



```
-bash
Please input one integer:83432werew 232ee ee3
The input integer is 83432
Although we got one integer from your input, your input contains non-numerical characters.
The garbage in your input is "werew 232ee ee3".
Press any key to continue!
```

☞ The deadline to upload the program is the midnight of 10/10.