You learned *getchar()* and *EOF* in the class*.* You use them in an example to count the number of digits from input1. Extend2 that program, so it will count the number of various English alphabets (both lowercase and uppercase). Also, count (i) the total number of characters, (ii) the number of words (i.e., terms that are separated by whitespaces: space, tab, newline).

You program should prints these:

* count of each digit (0-9)
* count of each alphabet letter (a-z and A-Z)
* total count of characters
* count of words

Submit only your C program on BlackBoard.

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1 As we showed in the class, the *input* can be received from a keyboard and terminated with *Ctrl-D*

or the *input* can be a file and send to the program using < operator.

2 only use *getchar()*  to read the characters from input. Don’t you other functions for reading theinput.