

**LOWER LEVEL DOCUMENTATION**  
**ON**  
**ANALYZING LINE OF ALPHANUMERIC TEXT**



**SUBMITTED BY**

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## **MAIN ROUTINE**

### **INPUTS:**

A line of alphanumeric text from user as hard declared input. There are no arguments involved in main function as we don't get command line inputs and no external inputs are involved.

### **SUBROUTINES CALLED:**

Count and passwordCheck are the subroutines to be called in main function.

For count function, the base address of the character array containing the text is passed to the function.

### **OUTPUT:**

1. The main analyses the input and prints the ASCII specifications of each character in the input.
2. In the above mentioned called subroutines, Count returns the count of vowels, consonants and digits which are printed in the main function. The main function returns nothing.

## **SUBROUTINES:**

### **COUNT:**

### **INPUT:**

The base address of the array containing the text passed by the main function is received by a character pointer variable in the subroutine.

There are no subroutines called by this function.

### **OUTPUT:**

The return type of subroutine is integer pointer. This subroutine is designed to count the number of vowels, consonants and digits. It stores them in an integer array and returns the base address of the integer array to the main function and the answers are printed in the main routine.

## **PASSWORD CHECK:**

### **INPUT:**

The base address of the array containing the text passed by the main function is received by a character pointer variable in the subroutine.

There are no subroutines called by this function.

### **OUTPUT:**

This subroutine checks the specifications for a given string to be accepted as a strong password according to the standards. If the text satisfies the required standards, The string is accepted. If not an alert message to re-enter the password as per standard specifications is displayed.