ou are given a string S. Count the number of occurrences of all the digits in the string S.

Input:  
First line contains string S.

Output:  
For each digit starting from 0 to 9, print the count of their occurrences in the string S. So, print 10 lines, each line containing 2 space separated integers. First integer i and second integer count of occurrence of i. See sample output for clarification.

**Constraints:**  
1≤|S|≤100

Code

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// Sample code to perform I/O:

#include <stdio.h>

int main(){

    int num;

    scanf("%d", &num);             // Reading input from STDIN

    printf("Input number is %d.\n", num); // Writing output to STDOUT

}

// Warning: Printing unwanted or ill-formatted data to output will cause the test cases to fail

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// Write your code here

#include <stdio.h>

int main()

{

int count[10] = {0,0,0,0,0,0,0,0,0,0};

char num[100];

scanf("%s", &num);

int i = 0;

while(num[i] != '\0'){

switch(num[i]){

case '0':

count[0]++;

break;

case '1':

count[1]++;;

break;

case '2':

count[2]++;

break;

case '3':

count[3]++;

break;

case '4':

count[4]++;

break;

case '5':

count[5]++;

break;

case '6':

count[6]++;

break;

case '7':

count[7]++;

break;

case '8':

count[8]++;

break;

case '9':

count[9]++;

break;

}

i++;

}

for(int j=0; j<10; j++){

printf("%d %d", j, count[j]);

printf("\n");

}

return 0;

}