### Digit Frequency

<https://www.hackerrank.com/contests/iwd-21-days-of-code/challenges/frequency-of-digits-1/problem>

Problem

Given a string, S, consisting of alphabets and digits, find the frequency of each digit in the given string.

Input Format :

The first line contains a string, num which is the given number.

Constraints :

1<=len(num)<=1000

All the elements of num are made of english alphabets and digits.

Output Format :

Print ten space-separated integers in a single line denoting the frequency of each digit from 0 to 9.

Sample Input 0

a11472o5t6

Sample Output 0

0 2 1 0 1 1 1 1 0 0

Explanation 0

In the given string:

1 occurs two times.

2,4,5,6 and 7 occur one time each.

The remaining digits 0,3,8 and 9 don't occur at all.

Sample Input 1

lw4n88j12n1

Sample Output 1

0 2 1 0 1 0 0 0 2 0

Sample Input 2

1v88886l256338ar0ekk

Sample Output 2

1 1 1 2 0 1 2 0 5 0

**Solution :**

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

    /\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

    char s[1024];

    scanf("%s",s);

    int len = strlen(s);

    int f[10] = {0};

    for(int i=0;i<len;i++){

        switch(s[i]){

            case '0':

                f[0] = f[0] + 1;

                break;

            case '1':

              f[1] = f[1] + 1;

              break;

            case '2':

              f[2] = f[2] + 1;

              break;

            case '3':

              f[3] = f[3] + 1;

              break;

            case '4':

              f[4] = f[4] + 1;

              break;

            case '5':

              f[5] = f[5] + 1;

              break;

            case '6':

              f[6] = f[6] + 1;

              break;

            case '7':

              f[7] = f[7] + 1;

              break;

            case '8':

              f[8] = f[8] + 1;

              break;

            case '9':

              f[9] = f[9] + 1;

              break;

            default:

                break;

        }

    }

    for(int i=0;i<10;i++) {

        printf("%d ",f[i]);

    }

    return 0;

}