Count Digits

You 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:
$1 \leq |S| \leq 100$

SAMPLE INPUT	SAMPLE OUTPUT
77150	0 1
	1 1
	2 0
	3 0
	4 0
	5 1
	6 0
	7 2
	8 0
	9 0