# 3. Digi-count

Program Name: Digicount.java Input File: digicount.dat

Mr. Appleworth was tired of one of his students, Alex, being disruptive in class. In an effort to change Alex's behavior, Mr. Appleworth decided to have Alex write all of the integers beginning with 1 and continuing to some number  $x, x \le 100$ . The number x was chosen by the teacher and was based on the severity of the disruption.

After having done this exercise several times, Alex started wondering how many times he had written each of the digits, 0 through 9. Rather than count them, he decided that it would be easier if he had a program to give him that information. Being Alex's best friend, you have agreed to write the program for him.

Given the number x, the number that Alex has to write through, you will write a program that will print the number of zeros, ones, twos, threes, fours, fives, sixes, sevens, eights, and nines that Alex will write.

### Input

The only line of input will contain an unknown number of positive integers, each indicating the last number that Alex is assigned to write for each of his disruptions. The integers will be separated by a space.

## **Output**

For each disruption, on a single line and followed by a space, you will print the number of times each of the digits will be written beginning with the digit zero and continuing through the digit nine.

# **Example Input File**

4 12 35 19

#### **Example Output to Screen**

0	1	1 1	. 1	0	0	0	0	0	
1	5	2 1	. 1	1	1	1	1	1	
3	14	14	1(	) 4	4	3	3	3	3
1	12	2	2 2	2 2	2	2	2	2	