# **DIGITS COUNT**

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Diana is going to write a list of all positive integers between A and B, inclusive, in base 10 and without any leading zeros. She wants to know how many times each digit is going to be used.

#### Input

Each test case is given in a single line that contains two integers A and B  $(1 \le A \le B \le 10^8)$ .

The last test case is followed by a line containing two zeros.

#### **Output**

For each test case output a single line with 10 integers representing the number of times each digit is used when writing all integers between A and B, inclusive, in base 10 and without leading zeros. Write the counter for each digit in increasing order from 0 to 9.

## Input

19

12 321

5987 6123

12345678 12345679

00

# **Output**

0111111111

61 169 163 83 61 61 61 61 61 61

134 58 28 24 23 36 147 24 27 47

022222211

# **Example**

Input:

etc.

### **Output:**

etc.