

## 4808 Digits Count

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  $B$  ( $1 \leq A \leq B \leq 10^8$ ). 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.

### Sample Input

```
1 9
12 321
5987 6123
12345678 12345679
0 0
```

### Sample Output

```
0 1 1 1 1 1 1 1 1 1
61 169 163 83 61 61 61 61 61 61
134 58 28 24 23 36 147 24 27 47
0 2 2 2 2 2 2 2 1 1
```