

UCF Local Contest (Round 1B) — September 12, 2020

Digit Count

filename: digit

Difficulty Level: Easy

Time Limit: 5 seconds

There are many ways to count the frequencies of letters but can they be applied to digits?

The Problem:

Given a range (in the form of two integers) and a digit (0-9), you are to count how many occurrences of the digit there are in the given range.

The Input:

There is only one input line; it provides the range and the digit. Each integer for the range will be between 1000 and 9999 (inclusive) and the digit will be between 0 and 9 (inclusive). Assume the first integer for the range is not greater than the second integer for the range.

The Output:

Print the number of occurrences of the digit in the given range.

Sample Input

Sample Output

1000 1000 0	3
1000 1001 0	5
8996 9004 5	0
9800 9900 5	20