Statistics

Problem Description

Count the number of occurrences of digit 2 among all integers in a given range [L, R].

For example, given the range [2, 22], the digit 2 appears once in the number 2, once in the number 12, once in the number 20, once in the number 21, and twice in the number 22, so the digit 2 appears six times in the given range.

[Constraints]

$1 \leq L \leq R \leq 10000$.

Input

The input consists of one line of two positive integers L and R, separated by a space.

Output

The output consists of one line, representing the number of occurrences of the digit 2.

Sample Input

2 22

Sample Output

6