Numeration Problem

Problem Description

Try to calculate how many times the number x (0≤x≤9) occurs in all integers from the interval 1 to N (n<=1000000). For example, from 1 to 11, that is, in 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, the number 1 occurs four times.

Input

There is one line containing two integers n and x, separated by a space.

Output

There is one line containing one integer, representing the number of occurrences of x.

Sample Input

11 1

Sample Output

4