

Problem Statement

The task is to take two integers that specify a range and output the quantity of prime numbers that exist in that range, inclusive of the specified boundaries. For example, the quantity of prime numbers that exist between 7 and 19 is 5 (namely 7, 11, 13, 17 and 19).

Input Format

An int representing one of the boundaries

An int representing another of the boundaries

Output Format

An int representing the quantity of prime numbers that exist within that range, inclusive of the boundaries

Constraints

All inputs ≥ 0 , \leq max int

Sample Input

7

19

Sample Output

