Twins

Lia is fascinated by anything she considers to be a *twin*. She calls a pairs of positive integers, i and j, twins if:

- They are both prime. A prime number is an integer greater than ${\bf 1}$ that has no positive divisors other than ${\bf 1}$ and itself.
- Their absolute difference is exactly equal to 2 (i.e., |j-i|=2).

Given an inclusive interval of integers from n to m, can you help Lia find the number of pairs of twins there are in the interval (i.e., [n, m])? Note that pairs (i, j) and (j, i) are considered to be the same pair.

Input Format

Two space-separated integers describing the respective values of n and m.

Constraints

- $1 \leq n \leq m \leq 10^9$
- $m-n \leq 10^6$

Output Format

Print a single integer denoting the number of pairs of twins.

Sample Input 0

3 13

Sample Output 0

3

Explanation 0

There are three pairs of twins: (3,5), (5,7), and (11,13).