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vikramlance

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Twins

locked

 by [shuf_2318](#)

Problem

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Editorial

Submissions will no longer be placed on the leaderboard. You may still attempt this problem for practice.

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

- They are both prime. A **prime** number is an integer greater than **1** that has no positive divisors other than **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).



Submissions: 4852

Max Score: 19.68

Difficulty: Medium

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```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 import math
3 def prime(n):
4     for i in range (2,int(n**0.5) + 1):
5         if n%i==0:
6             return "NO"
7     return "YES"
8
9
```

Line: 2 Col: 1

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Test against custom input

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