

Submitted Code

```
I # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3 import math
4 #from itertools import *
5 inport itertools
6
7
8 def _try_composite(a, d, n, s):
9 if pouls d, n = 1
```

```
11 pow(a, u, 11/ -- 1.
10
          return False
11
       for i in range(s):
12
           if pow(a, 2**i * d, n) == n-1:
               return False
13
14
       return True # n is definitely composite
15
16 def is_prime(n, _precision_for_huge_n=16):
17
      if n in _known_primes or n in (0, 1):
          return True
18
19
      if any((n % p) == 0 for p in _known_primes):
20
          return False
21
       d, s = n - 1, 0
22
       while not d % 2:
23
          d, s = d >> 1, s + 1
24
       # Returns exact according to http://primes.utm.edu/prove/prove2_3.html
25
       if n < 1373653:
          return not any(_try_composite(a, d, n, s) for a in (2, 3))
26
27
       if n < 25326001:
          return not any(_try_composite(a, d, n, s) for a in (2, 3, 5))
28
29
       if n < 118670087467:
30
          if n == 3215031751:
                                                                                                                            31
              return False
          return not any(_try_composite(a, d, n, s) for a in (2, 3, 5, 7))
32
33
      if n < 2152302898747:
34
          return not any(_try_composite(a, d, n, s) for a in (2, 3, 5, 7, 11))
35
       if n < 3474749660383:
36
          return not any(_try_composite(a, d, n, s) for a in (2, 3, 5, 7, 11, 13))
37
       if n < 341550071728321:</pre>
38
          return not any(_try_composite(a, d, n, s) for a in (2, 3, 5, 7, 11, 13, 17))
39
       # otherwise
40
       return not any(_try_composite(a, d, n, s)
41
                      for a in _known_primes[:_precision_for_huge_n])
42
43
   known primes = [2, 3]
44 _known_primes += [x for x in range(5, 1000, 2) if is_prime(x)]
45
46 #print is_prime(31, _precision_for_huge_n=16)
47
48 a,b = raw_input().strip().split(' ')
49 n = int(a)
50 m = int(b)
51
52 if n==1: n+=1
53
54 ans =0
55 for i in range(n,m+1):
56
      if i + 2 <= m:
           if is_prime(i) and is_prime(i+2):
57
58
               #print i , " " , (i+2)
59
60 print ans
61
```

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