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Prime Fibonnaci

+ Problem Description

Given two numbers $n1$ and $n2$

1. Find prime numbers between $n1$ and $n2$, then
2. Make all possible unique combinations of numbers from the prime numbers list you found in step 1.
3. From this new list, again find all prime numbers.
4. Find smallest (a) and largest (b) number from the 2nd generated list, also count of this list.
5. Consider smallest and largest number as the 1st and 2nd number to generate Fibonacci series respectively till the count (number of primes in the 2nd list).
6. Print the last number of a Fibonacci series as an output

+ Constraints

 $2 \leq n1, n2 \leq 100$ $n2 - n1 \geq 35$

+ Input Format

One line containing two space separated integers $n1$ and $n2$.

+ Output

Last number of a generated Fibonacci series.

+ Timeout

1

+ Test Case

Example 1

Input

2 40

Output

13158006689

Explanation

1st prime list = [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37]

Combination of all the primes = [23, 25, 27, 211, 213, 217, 219, 223, 229, 231, 32, 35, 37, 311, 313, 319, 323, 329, 331, 337, 52, 53, 57, 511, 513, 517, 519, 523, 529, 531, 537, 72, 73, 75, 711, 713, 717, 719, 723, 729, 731, 737, 112, 113, 115, 117, 1113, 1117, 1119, 1123, 1129, 1131, 1137, 132, 133, 135, 137, 1311, 1317, 1319, 1323, 1329, 1331, 1337, 172, 173, 175, 177, 1711, 1713, 1719, 1723, 1729, 1731, 1737, 192, 193, 195, 197, 1911, 1913, 1917, 1923, 1929, 1931, 1937, 232, 233, 235, 237, 2311, 2313, 2317, 2319, 2329, 2331, 2337, 292, 293, 295, 297, 2911, 2913, 2917, 2919, 2923, 2931, 2937, 312, 315, 317, 3111, 3113, 3117, 3119, 3123, 3129, 3137, 372, 373, 375, 377, 3711, 3713, 3717, 3719, 3723, 3729, 3731]

2nd prime list=[193, 3137, 197, 2311, 3719, 73, 137, 331, 523, 1931, 719, 337, 211, 23, 1117, 223, 1123, 229, 37, 293, 2917, 1319, 1129, 233, 173, 3119, 113, 53, 373, 311, 313, 1913, 1723, 317]

smallest (a) = 23

largest (b) = 3719

Therefore, the last number of a Fibonacci series i.e. 34th Fibonacci number in the series that has 23 and 3719 as the first 2 numbers is 13158006689

Example 2

Input

30 70

Output

2027041

Explanation

1st prime list=[31, 37, 41, 43, 47, 53, 59, 61, 67]

2nd prime list generated from combination of 1st prime list = [3137, 5953, 5347, 6761, 3761, 4337, 6737, 6131, 3767, 4759, 4153, 3167, 4159, 6143]

smallest prime in 2nd list=3137

largest prime in 2nd list=6761

Therefore, the last number of a Fibonacci series i.e. 14th Fibonacci number in the series that has 3137 and 6761 as the first 2 numbers is 2027041

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