The TCS Global Coding Contest

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04 Hr **37** Min **27** Sec

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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 <= n1, n2 <= 100

n2 - n1 >= 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 form 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

Upload Solution [Question : B]

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