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STUDENT REPORT

DETAILS

Name

PRIYANKA BAI

Roll Number

22BI24EC403-T

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EXPERIMENT

Title

Alice has a mathematics test for which she is underprepared. She has to do at least one question correctly to pass the test. He decides to do a question which needs her to find the smallest prime number which is larger than a given integer N. Your task is to find and return an integer value representing the smallest prime number larger than N.

Input Format:

input1: An integer value N

Output Format:

Return an integer value representing the smallest prime number larger than N.

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Sample Input

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×03-1

Sample Output

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22812AECA03-T 22812AECA03-T 22812AEC 22812AECA03-1 22812AECA03-Source Code:

```
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                                                               22BI24EC403-T-Maths Test
   import math
   def is_prime(num):
       if num <= 1:
           return False
       if num == 2:
           return True
       if num % 2 == 0:
           return False
       for i in range(3, int(math.sqrt(num)) + 1, 2):
           if num % i == 0:
               return False
       return True
   def next_prime(N):
       candidate = N + 1
       while True:
           if is_prime(candidate):
               return candidate
           candidate += 1
   # Input reading
   N = int(input())
   result = next_prime(N)
   print(result)
5 / 5 Test Cases Passed | 100 %
```

https://practice.reinprep.com/student/get-report/08a5ae1b-7bec-11ef-ae9a-0e411ed3c76b