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STUDENT REPORT

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DETAILS

Name

HARSHITHA T

Roll Number

3BR23CS063

EXPERIMENT

Title

263

MATHS TEST

Description

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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Sample Output

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```
3BR23CS063-Maths Test
    import math
    def is_prime(num):
        if num<=1:</pre>
             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
    N=int(input())
    result=next_prime(N)
    print(result)
RESULT
  5 / 5 Test Cases Passed | 100 %
```