384

:057



STUDENT REPORT

DETAILS

Name

G SANJANA

300

Roll Number

3BR23CS057

EXPERIMENT

Title

MATHS TEST

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

6

Sample Output

7

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38RT

9/28/24, 11:23 AM

```
3BR23CS057-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)
RESUL
  5 / 5 Test Cases Passed | 100 %
```