5000

638

STUDENT REPORT

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28R23C506 38R23C506 38R25C506 38R25C

38RT

· 3BR23

Name

DETAILS

AKANKSH R

Roll Number

3BR23CS006

EXPERIMENT

Title

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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.

38R23C5006 38R23C5000 38R20000 38R20000 38R20000 38R20000 38R20000 38R20000 38R200000 38R2000000 38

Input Format:

input1: An integer value N

Output Format:

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

Sample Input

6

,0063BR2

Sample Output

7

38R23C50063RR23C50063RR23C5006 3BR23C50063BR23C50063BR23C 3BR23C50063BR23C50063BR23C50063.

9/28/24, 6:25 AM

```
3BR23CS006-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 %
```