



STUDENT REPORT

DETAILS

Name

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Roll Number

3BR23CA073

EXPERIMENT

Title

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.

Sample Input

6

Sample Output

7

Source Code:

```
def next_prime(N):
    num = N + 1
    while True:
        is_prime = True
        for i in range(2, int(num**0.5) + 1):
            if num % i == 0:
                is_prime = False
                break
        if is_prime:
            return num
        num += 1
    N = int(input())
    result = next_prime(N)
    print(result)
```

RESULT

3BR

4073

23CA

3BR
23CA

4073
3BR

23CA
4073

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