



STUDENT REPORT

DETAILS

Name

SHAGUFTHA NIKHAR

Roll Number

3BR23CD087

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 is_prime(num):
    if num < 2:
        return False
    for i in range(2, int(num**0.5) + 1):
        if num % i == 0:
            return False
    return True

def next_prime(n):
    num = n + 1
    while not is_prime(num):
        num += 1
    return num

n = int(input())
result = next_prime(n)
print(result)
```

RESULT

3BK

0087

23CL

3BK
3BR

0087
0087

23CL
23CL

3BR
3P