STUDENT REPORT

DETAILS

Name

SHIRISHA T S

Roll Number

3BR23CD088

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

5 / 5 Test Cases Passed | 100 %

5 / 5 Test Cases Passed | 100 %