STUDENT REPORT

DETAILS

Name

B LAVANYA

Roll Number

3BR23CS024

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 %