STUDENT REPORT

DETAILS

Name

GOUTHAMI J

Roll Number

3BR23CD023

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 %