

STUDENT REPORT

ZAEC

DETAILS

Name

NISARGA P

Roll Number

22BI24EC402-T

02

EXPERIMENT

Title

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.

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Sample Input

6

×02.

Sample Output

7

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22BI24EC402-T-Maths Test
  import math
  def is_prime(num):
      if num <= 1:
          return False
      if num == 2:
          return True
      if num % 2 == 0:
          return False
      for i in range(3, int(math.sqrt(num)) + 1, 2):
          if num % i == 0:
              return False
      return True
  def next_prime(N):
      candidate = N + 1
      while True:
          if is_prime(candidate):
              return candidate
          candidate += 1
  # Input reading
  N = int(input())
  result = next_prime(N)
  print(result)
5 / 5 Test Cases Passed | 100 %
```