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STUDENT REPORT SERVE STUDENT REPORT
STUDENT REPORT Name Y GOUTHAM KUMAR
Y GOUTHAM KUMAR
Roll Number September Sept
3BR23CV023
BR23CV023 EXPERIMENT Title MATHS TEST Description Description Alice has a mathematic test four high she is underground Che has a death as a mathematic parable to a mathematic test for which she is underground Che has a death as a mathematic parable to a mathematic test for which she is underground Che has a death as a mathematic parable to a mathematic test for which she is underground Che has a death as a mathematic parable to
MATHS TEST AND
Description Alice has a mathematics test for which she is undergroupered. She has to do at least one question correctly to pass the test. He
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
input1: An integer value N Output Format: Return an integer value representing the smallest prime number larger than N.
Return an integer value representing the smallest prime number larger than N.
Sample Input
Sample Input 6 Sample Output
Sample Output
Source Code: 34k1,35,401,33k1,35,401,33k1,35,401,33k1,35,401,34k1,35,401,33k1,35,401,35,401,33k1,35,401,35,
Source Code: \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Source Code: Source Code: ART 2 AR
34K13C1013 34K13C
345,35, 1013 345, 1013 345, 1013 345, 1013 345, 1013 345, 1013 345, 1013 345, 1013 345, 1013 345, 1013 345, 1013
364, 2010 13 SHU3C, 1013 SHU3C, 1364, 384, 1843, 384, 1843, 384, 1843, 1

```
def is_prime(num):
            if num <= 1:
                return False
            if num <= 3:
                return True
            if num % 2 == 0 or num % 3 == 0:
               return False
            i = 5
            while i * i <= num:
                if num % i == 0 or num % (i + 2) == 0:
                  return False
                i += 6
             return True
         def find_smallest_prime_larger_than_n(n):
            candidate = n + 1
            while not is_prime(candidate):
                candidate += 1
            return candidate
         n = int(input())
                                                                                                  result = find_smallest_prime_larger_than_n(n)
         print(result)
RESULT
```

5 / 5 Test Cases Passed | 100 %