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BR23CS039  EXPERIMENT  Title  MATHS TEST  ARAPAGED ARAPAG
Description  ARAPAGENA ARA
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:
Output Format:  Return an integer value representing the smallest prime number larger than N.
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Sample Output
-2
7
Source Code: 34kl <sup>3</sup> 37 34kl <sup>3</sup> 37 34kl <sup>3</sup> 57 34kl <sup>3</sup> 5
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Source Code:  Source Code:  ARRIVACEDAD AR
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Sample Output  Source Code:  S
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```
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)
      RESULT
5 / 5 Test Cases Passed | 100 %
```