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23C50A7	Alice has a mathematics test for which she is underprepared. She has to do at least one question correctly to pass the test. He	Sel ³ C
	Input Format:	0
30A2 3BR	Output Format:	SOAT
		0
	Return an integer value representing the smallest prime number larger than N.	
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382730	Return an integer value representing the smallest prime number larger than N.  Sample Input  6  Sample Output	THE STATE OF THE S

```
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 %
```