01	Logo	0.*
138223' 33K17238' 38K23K17'' 1238K23R	STUDENT REPORT	23A1123
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Description 23 PL 2 P	1238R1 34R23A112 3R123A1123BR23A1123BR23A1123	381 12381 38R23R1
decides to do a question which needs her to	is underprepared. She has to do at least one question correctly to pass of find the smallest prime number which is larger than a given integer N. ing the smallest prime number larger than N.	
Input Format:		12,
input1: An integer value N Output Format:		£
Output Format:		36.
		1,1
Return an integer value representing the sma	allest prime number larger than N.	W.
Return an integer value representing the sma	allest prime number larger than N.	171 ¹
Return an integer value representing the small sample Input 6		38R23A
Return an integer value representing the small sample Input 6 Sample Output		38k23A
Return an integer value representing the small sample Input 6 Sample Output		38R23A
Return an integer value representing the small sample Input 6 Sample Output		38R23A
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Return an integer value representing the small sample Input 6 Sample Output		38R23A11238R23A112
Return an integer value representing the small sample Input 6 Sample Output		3BR23AIII23BR23AIII23BR23AIII23AIII23AIII23AIII23AIII23AIII23AIII23AIII23AIII23AIII23AIII
Return an integer value representing the small sample Input 6 Sample Output		3 BH2 3 All 12 3 BH2 3 All 18 BHB AR
Return an integer value representing the small sample Input 6 Sample Output		3 BR 2 3 A 1 1 2 3 BR 2 3 A 1 3 B R 2 3 A 1 1 2 B R 2 B R 2 A A 1 3 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 B R 2 A 1 A 1 3 B R 2 B R 2 B R 2 B R 2 A 1 A 1 3 B R 2 B R

```
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
         N = int(input())
         result = next_prime(N)
         print(result)
     RESULT
5 / 5 Test Cases Passed | 100 %
```