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)