

# Next Prime

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## Brute Force Practice 3

You love prime numbers. You own a number, but you suspect it might not be prime. You want a prime number, but it must be at least as large as the number you currently own. Find the smallest number that satisfies those conditions.

## Input

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The first line will have the integer  $N$  ( $1 \leq N \leq 2 \times 10^9$ )

## Output

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Print the number you want.

## Sample Input

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4

## Sample Output

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5