

# T 105 - Series of Primes

Problem

Submissions

Leaderboard

Discussions

A prime number is a number that is divisible by only two numbers, 1 and itself. 1 is neither a prime number nor a composite number. Hence, 2 is the first prime number, 3 is the second prime number and so on..

Your task is to write a program that takes as input an integer N and prints the Nth prime number.

## Input

Input consists of a single integer N

## Output

Print the Nth prime number

### Sample Input 0

1

### Sample Output 0

2

### Sample Input 1

2

### Sample Output 1

3



Contest ends in a day

Submissions: 243

Max Score: 50

Difficulty: Medium

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Current Buffer (saved locally, editable)  

C++14



```
1 primes = []
2
3 def SieveOfEratosthenes():
4
5     # setting all the numbers to be prime
6     n = 10000000
7     prime = [True for i in range(n + 1)]
8
9     p = 2
```

```
10     while (p * p <= n):
11         if (prime[p] == True):
12             for i in range(p * p, n + 1, p):
13                 prime[i] = False
14
15         p += 1
16
17     for p in range(2, n + 1):
18         if prime[p]:
19             primes.append(p)
20
21
22
23 SieveOfEratosthenes()
24 g=int(input())
25 g-=1
26 print(primes[g])
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code