T 105 - Series of Primes

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
```


Current Buffer (saved locally, editable) C++14

```
primes = []

def SieveOfEratosthenes():

#  setting all the numbers to be prime
    n = 10000000
    prime = [True for i in range(n + 1)]

    p = 2
```

```
    while (p * p <= n):
        if (prime[p] == True):
            for i in range(p * p, n + 1, p):
                prime[i] = False

        p += 1

    for p in range(2, n + 1):
        if prime[p]:
            primes.append(p)



SieveOfEratosthenes()
g=int(input())
g-=1
print(primes[g])
```

Line: 1 Col: 1

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