Programiz
C++ Online Compiler

Learn Python

main.cpp | Output

```cpp
#include <iostream>
using namespace std;

int main()
{
    int a = 5, b = 10, temp;

    cout << "Before swapping." << endl;
    cout << "a = " << a << ", b = " << b
        << endl;

    temp = a;
    a = b;
    b = temp;

    cout << "\nAfter swapping." << endl;
    cout << "a = " << a << ", b = " << b
        << endl;

    return 0;
}
```

Run

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main.cpp | Output

```
/tmp/vbc8pHNsvD.o
Before swapping.
a = 5, b = 10
After swapping.
a = 10, b = 5
```

main.cpp | Output

```cpp
#include <iostream>
using namespace std;

int main() {
    float n1, n2, n3;

    cout << "Enter three numbers: ";
    cin >> n1 >> n2 >> n3;

    if(n1 >= n2 && n1 >= n3)
        cout << "Largest number: " << n1;

    if(n2 >= n1 && n2 >= n3)
        cout << "Largest number: " << n2;

    if(n3 >= n1 && n3 >= n2)
        cout << "Largest number: " << n3;

    return 0;
}
```

Run

main.cpp | Output

```
/tmp/1qONIgdfXO.o
Enter three numbers: 2.3
8.3
2.7
Largest number: 8.3
```

main.cpp | Output

```cpp
#include <iostream>
using namespace std;

int main() {
    int year;

    cout << "Enter a year: ";
    cin >> year;

    if (year % 4 == 0) {
        if (year % 100 == 0) {
            if (year % 400 == 0)
                cout << year << " is a
                    leap year.";
            else
                cout << year << " is not a
                    leap year.";
        }
        else
            cout << year << " is a leap
                year.";
    }
    else
        cout << year << " is not a leap
            year.";

    return 0;
}
```

Run

main.cpp | Output

```
/tmp/1qONIgdfXO.o
Enter a year: 2017
2017 is not a leap year.
```

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main.cpp | Output

```cpp

#include<iostream>
using namespace std;
int main()
{
int sum = 0, n;
int a = 0;
int b = 1;
cout << "Enter the nth value: ";
cin >> n;
cout << "Fibonacci series: ";
while(sum <= n)
{
cout << sum << " ";
a = b;  // swap elements
b = sum;
sum = a + b;  // next term is the sum of
    the last two terms
}
return 0;
}

```

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main.cpp | Output

```
/tmp/DgFtXXIQeM.o
Enter the nth value: 1000
Fibonacci series: 0 1 1 2 3 5 8 13 21 34 55 89
    144 233 377 610 987
```

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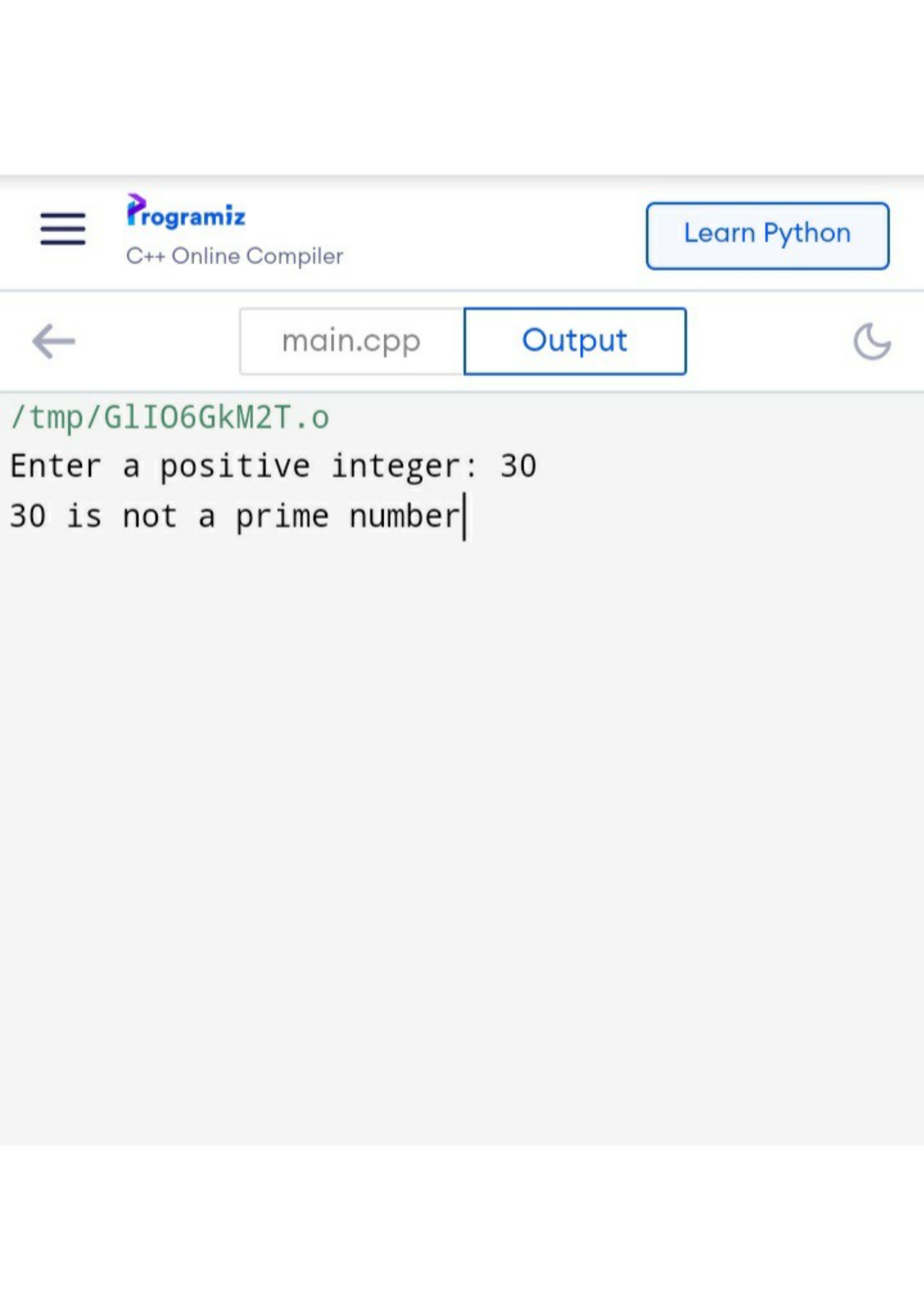
main.cpp | Output

```cpp
#include <iostream>
using namespace std;

int main() {
    int i, n;
    bool isPrime = true;

    cout << "Enter a positive integer: ";
    cin >> n;

    // 0 and 1 are not prime numbers
    if (n == 0 || n == 1) {
        isPrime = false;
    }
    else {
        for (i = 2; i <= n / 2; ++i) {
            if (n % i == 0) {
                isPrime = false;
                break;
            }
        }
    }
    if (isPrime)
        cout << n << " is a prime number";
    else
        cout << n << " is not a prime
            number";

    return 0;
}
```

Run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main.cpp
Output
/tmp/GlIO6GkM2T.o
Enter a positive integer: 30
30 is not a prime number