



main.cpp

Output

0

```
#include <iostream>
 1
    using namespace std;
 2
 3
4
    int main()
5 - {
        int a = 5, b = 10, temp;
 6
7
        cout << "Before swapping." << endl;</pre>
8
        cout << "a = " << a << ", b = " << b
9
             << endl;
10
        temp = a;
11
        a = b;
12
13
        b = temp;
14
        cout << "\nAfter swapping." << endl;</pre>
15
        cout << "a = " << a << ", b = " << b
16
            << endl;
17
18
        return 0;
19
   }
```





main.cpp

Output



/tmp/bKdt5XCGP6.o

Before swapping.

$$a = 5, b = 10$$

After swapping.

$$a = 10, b = 5$$



main.cpp

Output



```
#include <iostream>
    using namespace std;
 2
 3
4 - int main() {
 5
         float n1, n2, n3;
 6
         cout << "Enter three numbers: ";</pre>
 7
 8
         cin >> n1 >> n2 >> n3;
9
         if(n1 >= n2 \&\& n1 >= n3)
10
11
             cout << "Largest number: " << n1</pre>
12
13
         if(n2 >= n1 \&\& n2 >= n3)
             cout << "Largest number: " << n2</pre>
14
15
         if(n3 >= n1 \&\& n3 >= n2)
16
            cout << "Largest number: " << n3</pre>
17
18
19
         return 0;
20 }
```



/tmp/xTXj0NDhUA.o

Enter three numbers:2.3

8.3

-4.2

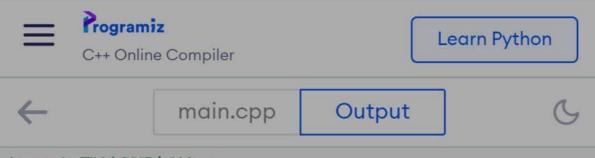
Largest number: 8.3

```
← [
```

main.cpp Output



```
#include <iostream>
 1
    using namespace std;
 2
3
4 - int main() {
5
        int year;
 6
        cout << "Enter a year: ";</pre>
7
8
        cin >> year;
9
10 -
        if (year % 4 == 0) {
11 -
             if (year % 100 == 0) {
                  if (year % 400 == 0)
12
                      cout << year << " is a
13
                           leap year.";
14
                 else
15
                      cout << year << " is not
                           a leap year.";
16
             }
17
             else
18
                  cout << year << " is a leap</pre>
                      year.";
19
        }
        else
20
             cout << year << " is not a leap</pre>
21
                 year.";
22
23
        return 0;
                                          Run
24
    }
```



/tmp/xTXj0NDhUA.o

Enter a year: 2014

2014 is not a leap year.



20

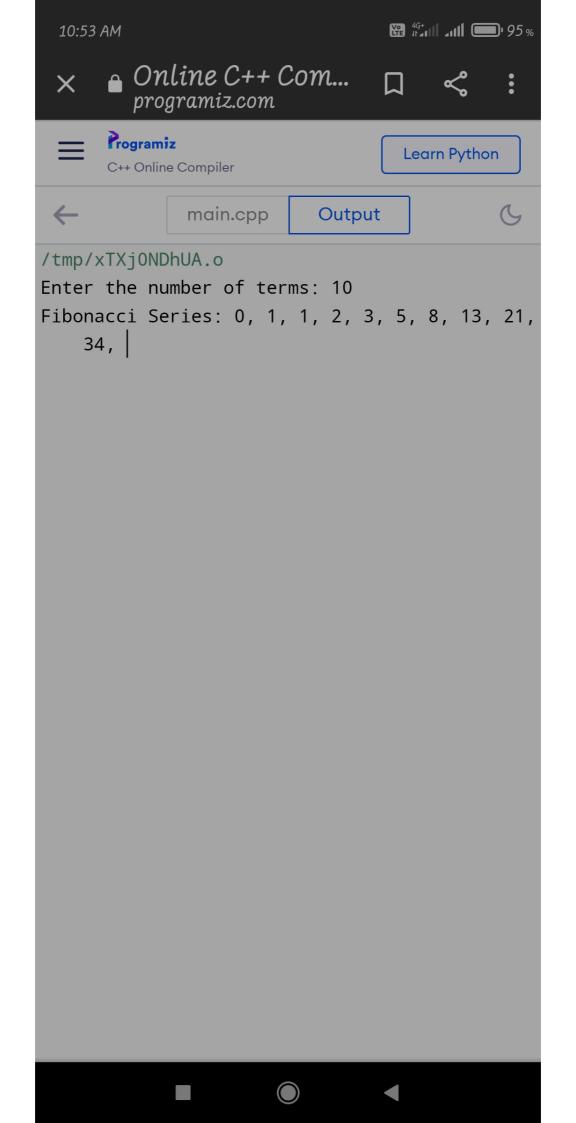
ration A.

main.cpp

Output



```
#include <iostream>
 1
    using namespace std;
 2
 3
4 - int main() {
 5
        int n, t1 = 0, t2 = 1, nextTerm = 0;
 6
        cout << "Enter the number of terms:</pre>
 7
 8
        cin >> n;
 9
        cout << "Fibonacci Series: ";</pre>
10
11
12 -
        for (int i = 1; i \le n; ++i) {
13
             // Prints the first two terms.
14 -
             if(i == 1) {
15
                 cout << t1 << ", ";
16
                 continue;
17
             }
18 -
             if(i == 2) {
19
                 cout << t2 << ", ";
20
                 continue;
21
             }
22
             nextTerm = t1 + t2;
23
             t1 = t2;
24
             t2 = nextTerm;
25
26
             cout << nextTerm << ",
                                         Run
27
```



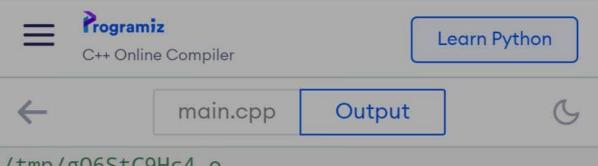


main.cpp

Output

3

```
#include <iostream>
 1
    using namespace std;
 2
 3
4 int main() {
 5
        int i, n;
        bool isPrime = true;
 6
 7
 8
        cout << "Enter a positive integer:</pre>
9
        cin >> n;
10
11
        // 0 and 1 are not prime numbers
12 -
        if (n == 0 || n == 1) {
13
            isPrime = false;
14
        }
15 -
        else {
             for (i = 2; i \le n / 2; ++i) {
16 -
                 if (n % i == 0) {
17 -
18
                     isPrime = false;
19
                     break;
20
                 }
21
             }
22
        }
        if (isPrime)
23
             cout << n << " is a prime
24
                 number";
25
        else
                                        Run
             cout << n << " is not a
26
                 numbar".
```



/tmp/g06StC9Hc4.o

Enter a positive integer: 29 29 is a prime number



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main.cpp

Output

3

```
#include <iostream>
    using namespace std;
 2
 3
    int main()
4
 5 * {
         int i, n;
 6
         float arr[100];
 7
 8
         cout << "Enter total number of</pre>
 9
             elements(1 to 100): ";
10
         cin >> n;
11
         cout << endl;</pre>
12
13
         // Store number entered by the user
14
         for(i = 0; i < n; ++i)
15 -
         {
16
            cout << "Enter Number " << i + 1</pre>
                 << " : ";
17
            cin >> arr[i];
18
         }
19
20
         // Loop to store largest number to
             arr[0]
         for(i = 1; i < n; ++i)
21
22 *
         {
23
            // Change < to > if you want to
                 find the smallest element
                                          Run
            if(arr[0] < arr[i])</pre>
24
```

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main.cpp

Output



/tmp/P20n74ooZy.o

Enter total number of elements(1 to 100): 8

Enter Number 1: 23.4

Enter Number 2: -34.5

Enter Number 3: 50

Enter Number 4: 33.5

Enter Number 5: 55.5

Enter Number 6: 43.7

Enter Number 7: 5.7

Enter Number 8: -66.5

Largest element = 55.5



4

main.py

Shell



```
1 # Python 3.x code to demonstrate
    star pattern
```

2

3 # Function to demonstrate printing
 pattern

4

5 * def pypart(n):

6

7

8

9 # outer loop to handle number
 of rows

10

11 # n in this case

12

13 * for i in range(0, n):

14

15

16

17 # inner loop to handle number of columns

18

values changing acc. to outer loop

20

Run



 \leftarrow

main.py

Shell

3

```
number of columns
18
19
            # values changing acc. to
                 outer loop
20
21 -
            for j in range(0, i+1):
22
23
24
                # printing stars
25
26
              print("* ",end="")
27
28
29
30
            # ending line after each
31
                 row
32
            print("\r")
33
34
    # Driver Code
35
36
    n = 5
37
    pypart(n)
38
                                   Run
39
```





 \leftarrow

main.py

Shell

5

*

* *

* * *

* * * *

* * * * *

>