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# Output of C++ programs | Set 21

**What will be the output of this program?**

```
#include<iostream>
using namespace std;
int x; // Global x

int main()
{
    int x = 10; // Local x
    cout << "Value of global x is " << ::x << endl;
    cout << "Value of local x is " << x;
    return 0;
}
```

Output:

```
Value of global x is 0
Value of local x is 10
```

In C++, global variable (if we have a local variable with same name), can be accessed using scope resolution operator (::).

**What will be the output of this program?**

```
#include <iostream>
using namespace std;
int a = 90;

int fun(int x, int *y = &a)
{
    *y = x + *y;
    return x + *y;
}

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





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```
b = fun(::a,&a);
cout << a << " " << b << endl;

return 0;
}
```

```
100 10
195 290
```

There are two variables with name 'a', one is global and other is local. When we call **a = fun(a);**, it calls int fun(int x, int \*y=&a), here pointer to global variable (which is a = 90) is assigned to y. Therefore.

```
*y = x + *y; // becomes 5 + 90
return x + *y; // becomes 5 + 95
```

### What will be the output of this program?

```
#include <iostream>
using namespace std;
int a = 2;

int fun(int *a)
{
    ::a *= *a;
    cout << ::a << endl;
    return *a;
}

int main()
{
    int a = 9;
    int &x = ::a;

    ::a += fun(&x);
    cout << x;
}
```

Output:

```
4
8
```

The global variable is being accessed by the function fun every time using ::a. The local variable value doesn't impact on the value of a.

### What will be the output of this program?





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```
{
    char *A[] = { "abcx", "dbba", "cccc"};
    char var = *(A+1) - *A+1;
    cout << (*A + var);
}
```

▶ prog.cpp: In function 'int main()':  
 prog.cpp:6:38: warning: ISO C++ forbids converting a string constant to 'char  
 char \*A[] = { "abcx", "dbba", "cccc"};  
 ^  
 prog.cpp:6:38: warning: ISO C++ forbids converting a string constant to 'char  
 prog.cpp:6:38: warning: ISO C++ forbids converting a string constant to 'char

**Output:**

bba

Here the array representation is A[0] = "abcx", A[1] = "dbba", A[2] = "cccc". Precedence of (pointer)\* >(binary) +, and order of execution of '\*' is right to left . If 'A' address is 'x' then address of '(A+1)' is 'x+6' and address of '\*A+1' is 'x+1'. So integer value of var = 6 (total no of character between two points (x+6)-(x+1)+1). During printing the operator '+' is overloaded now the pointer points to 'x+7' . For this reason the output of the program.

**What will be the output of this program?**

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

int main()
{
    char a = 'a', b = 'x';
    char c = (b ^ a >> 1 * 2) +(b && a >> 1 * 2 );
    cout << " c = " << c;
}
```

**Output:**

c = 97

Integer value of a = 97 (01100001), integer value of b = 120 (01111000), precedence of '\*' > '>>' > '^' > '&&' .

So expression is ' ((b ^ (a >> (1 \* 2))) - (b && (a >> (1 \* 2))))'. Integer Value of expression a >> 1 \* 2 = 24 b ^ a >> 1 \* 2 = 96 b && a >> 1 \* 2 = 1 which is 97.





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

int main()
{
    int i = 5, j = 3;
    switch(j)
    {
        case 1:
            if (i < 10) cout << "case 1";
            else if (i > 10)
                case 2:
                    cout << "case 2";
            else if (i==10)
                case 3:
        default:
            cout << "case 3";
            cout << "hello";
    }
}
```

**Output:**

```
case 3hello
```

Since  $j=3$  satisfies the condition, it goes in case 3. There is nothing in case 3, also there is no break. So default is executed. Please refer [switch statement in C](#) for details.

This article is contributed by **Punit, Smriti Satyanarayana, Akash Tiwari, Sagar Tripathy** . If you like GeeksforGeeks and would like to contribute, you can also write an article using [contribute.geeksforgeeks.org](http://contribute.geeksforgeeks.org) or mail your article to [contribute@geeksforgeeks.org](mailto:contribute@geeksforgeeks.org). See your article appearing on the GeeksforGeeks main page and help other Geeks.

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