

MA122 - Computer Programming and Applications

Indian Institute of Space Science and Technology

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Lecture 12

MA122 -
Computer
Programming
and
Applications

Some
questions

1 Some questions

question

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Arrange in order of precedence (highest first) the following kinds of operators: logical, arithmetic, assignment, relational.

output

What is the output of the following program?

```
1 #include <iostream>
2 int main()
3 {
4     using namespace std;
5     float fValue1 = 2.345f;
6     float fValue2 = 1.123f;
7     float fTotal = fValue1 + fValue2;
8
9     if (fTotal == 3.468)
10         cout << "fTotal=3.468";
11     else
12         cout << "fTotal!=3.468";
13     return 0;
14 }
```

output

What values does the following program prints?

```
1 #include <iostream>
2 int main()
3 {
4     using namespace std;
5     float y=6.5;
6
7     int x = 10;
8     {
9         cout << x << endl;
10        int x = 100;
11        cout << x << endl;
12        int y=5;
13        cout << y << endl;
14    }
15    cout << x << endl;
16    cout << y << endl;
17    return 0; }
```

What values does the following program display?

```
1 #include <iostream>
2 int add(int, int);
3 int multiply(int, int);
4 int main()
5 {
6     using namespace std;
7
8     cout << add(3, 6) << endl;
9     cout << multiply(2, 3) << endl;
10    int a = 5;
11
12    cout << add(a, a) << endl;
13    cout << add(1, multiply(2, 3)) << endl;
14    cout << add(1, add(2, 3)) << endl;
15    return 0;
16 }
```

```
1  
2 int add(int x, int y)  
3 {  
4     return x + y;  
5 }  
6  
7  
8 int multiply(int z, int w)  
9 {  
10    return z * w;  
11 }
```

True or False

State whether each of the following is true or false. If false, tell why.

- $!(p \parallel q)$ is the same as $!p \parallel !q$
- $!!!p$ is the same as $!p$
- $p \ \&\& \ q \ \parallel \ r$ is the same as $p \ \&\& \ (q \ \parallel \ r)$

What is the output of the following program?

```
1 //cout.cpp
2 #include<iostream>
3 using namespace std;
4 int main()
5 {
6     cout<<" "<<(cout<<"UVCE")<<endl;
7     return 0;
8 }
```

What is the output of the following program?

```
1 //size.cpp
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     cout << "The size of an int is:\t\t" << sizeof(int) <<
7         " bytes.\n";
8     cout << "The size of a short int is:\t" << sizeof(
9         short) << " bytes.\n";
10    cout << "The size of a long int is:\t" << sizeof(long)
11        << " bytes.\n";
12    cout << "The size of a char is:\t\t" << sizeof(char)
13        << " bytes.\n";
14    cout << "The size of a float is:\t\t" << sizeof(float)
15        << " bytes.\n";
16    cout << "The size of a double is:\t" << sizeof(double)
17        << " bytes.\n";
18    return 0;}
```