

Answer to question #38814, Programming, C++

Question:

What are the outpost statements and how do they function in a program?

Answer:

C++ has not "outpost statements". But I think that you mean "output statements".

There are following header files important to C++ programs:

Header File	Function and Description
<iostream>	This file defines the <b>cin</b> , <b>cout</b> , <b>cerr</b> and <b>clog</b> objects, which correspond to the standard input stream, the standard output stream, the un-buffered standard error stream and the buffered standard error stream, respectively.

The standard output stream (**cout**):

The predefined object **cout** is an instance of **ostream** class. The **cout** object is said to be "connected to" the standard output device, which usually is the display screen. The **cout** is used in conjunction with the stream insertion operator, which is written as << which are two less than signs as shown in the following example.

```
#include <iostream>

using namespace std;

int main( )
{
    char str[] = "Hello C++";

    cout << "Value of str is : " << str << endl;
}
```

When the above code is compiled and executed, it produces the following result:

```
Value of str is : Hello C++
```

The C++ compiler also determines the data type of variable to be output and selects the appropriate stream insertion operator to display the value. The << operator is overloaded to output data items of built-in types integer, float, double, strings and pointer values.

The insertion operator << may be used more than once in a single statement as shown above and **endl** is used to add a new-line at the end of the line.