MA122 - Computer Programming and Applications

Indian Institute of Space Science and Technology

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Lecture 22

MA122 -
Computer
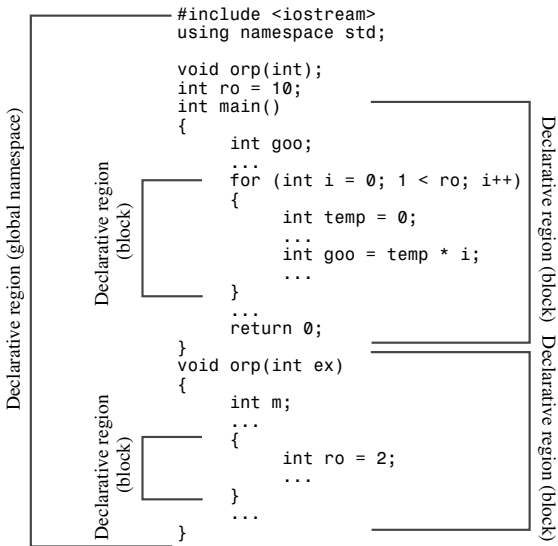Programming
and
Applications

Namespace

Using
declarations

Using
directives

1 Namespace

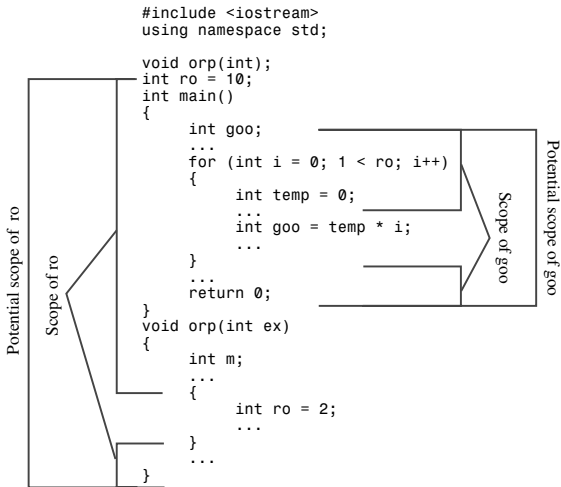2 Using declarations

3 Using directives

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

void orp(int);
int ro = 10;
int main()
{
    int goo;
    ...
    for (int i = 0; 1 < ro; i++)
    {
        int temp = 0;
        ...
        int goo = temp * i;
        ...
    }
    ...
    return 0;
}
void orp(int ex)
{
    int m;
    ...
    {
        int ro = 2;
        ...
    }
    ...
}
```

Figure 9.6   Potential scope and scope.

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using declarations

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```cpp
#include <iostream>
#include <string>
using std::string;
int main()
{
    string str = "Example";
    using std::cout;
    cout << str;
}
```

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```
1  namespace Jill {
2    double bucket(double n) { ... }
3    double fetch;
4    struct Hill { ... };
5  }
6  // ::, the scope-resolution operator
7  char fetch;
8  int main()
9  {
10   using Jill::fetch; // put fetch into local namespace
11   double fetch;      // Error! Already have a local
         fetch
12   cin >> fetch;      // read a value into Jill::fetch
13   cin >> ::fetch;    // read a value into global fetch
14   ...
15 }
```

Lecture 22

1 Namespace

2 Using declarations

3 Using directives

using directives

```
1  namespace Jill {
2    double bucket(double n) { ... }
3    double fetch;
4    struct Hill { ... };
5  }
6  char fetch;                  // global namespace
7  int main() {
8    using namespace Jill; // import all namespace names
9    Hill Thrill; // create a type Jill::Hill structure
10   double water = bucket(2); // use Jill::bucket();
11   double fetch;    // not an error; hides Jill::fetch
12   cin >> fetch;    // read a value into the local fetch
13   cin >> ::fetch;  // read a value into global fetch
14   cin >> Jill::fetch; }// into Jill::fetch
15
16  int foom() {
17   Hill top;              // ERROR
18   Jill::Hill crest; }    // valid
```