

For the program in Fig. 6.33, state the scope (either function scope, global namespace scope, block scope or function-prototype scope) of each of the following elements:

- a) The variable x in main. **Block scope**
- b) The variable y in cube. **Block scope**
- c) The function cube. **Global namespace scope**
- d) The function main. **Global namespace scope**
- e) The function prototype for cube. **Global namespace scope**
- f) The identifier y in the function prototype for cube. **Function-prototype scope**

```
// Exercise 6.2: Ex06_02.cpp
#include <iostream>
using namespace std;

int cube( int y ); // function prototype

int main()
{
    int x = 0;
    for ( x = 1; x <= 10; x++ ) // loop 10 times
        cout << cube( x ) << endl; // calculate
cube of x and output results
}

Int cube( int y)
{
    return y * y * y;
}
```