

Beginning C++ Programming

Scope Rules

In the sample source code, there is function prototype

```
void local_example();
```

and then a function definition:

```
void local_example(int x) {  
    int num {1000};        // local to local_example  
    cout << "\nLocal num is: " << num << " in local_example - start" << endl;  
    num=x;  
    cout << "Local num is: " << num << " in local_example - end" << endl;  
    // num1 in main is not within scope - so it can't be used here.  
}
```

The function prototype should be:

```
void local_example(int);
```

The way that it is currently written it will work fine, but we are overloading the `local_example` function, which is not the what we wanted to do.

Thanks to Rafael Moser for reporting this error.

Best regards,
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