Supplement IV.I: Nested Classes For Introduction to C++ Programming By Y. Daniel Liang

Nested classes are very useful in Java, but are rarely used in C++. You can define nested classes like data field or a member function in C++. Here is an example:

```
#include <iostream>
using namespace std;
class A
public:
  void p()
    B b(3);
   cout << b.getI() << endl;</pre>
private:
 class B
  public:
    B(int newI)
      i = newI;
    int getI()
      return i;
  private:
   int i;
  };
};
int main()
 A a;
 a.p();
 return 0;
<Output>
```

<End Output>

Line 14 declares a nested class \underline{B} inside the class \underline{A} . B can be used just like a regular class. Since it is only used in A, it makes sense to define it inside A.