

# Week 1 Challenge

Total points 5

1. Create a class called Pair that has two public integer member variables named "a" and "b", and a public member function named sum() that has no arguments but adds the two member variables together and returns their sum.

5 points

```
1  // You should define Pair here:
2  // (Use as many lines as you need!)
3  // ...
4  // ...
5  class Pair{
6      public:
7          int a;
8          int b;
9          int sum() {
10             return a + b;
11         }
12 };
13 // This main() function will help you test your work.
14 // Click Run to see what happens.
15 // When you're sure you're finished, click Submit for grading
16 // with our additional hidden tests.
17 int main() {
18     Pair p;
19     p.a = 100;
20     p.b = 200;
21     if (p.a + p.b == p.sum()) {
22         std::cout << "Success!" << std::endl;
23     } else {
24         std::cout << "p.sum() returns " << p.sum() << " instead of " << (p.a + p.b) << std::endl;
25     }
26     return 0;
27 }
```