



Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

GRADE
100%

Week 4 Challenge

LATEST SUBMISSION GRADE

100%

1. A base class `Pair` contains a single constructor `Pair(a,b)` that initializes the pair with the two integer arguments `a` and `b`. A derived class `sumPair` inherits the base class `Pair`, and specializes it with a new constructor `sumPair(a,b)` and a new variable `sum`.

5 / 5 points

Both of these classes have already been defined.

Implement the new constructor `sumPair(a,b)`, which was declared already in class `sumPair`. The new constructor `sumPair(a,b)` should initialize the inherited class `Pair` with integer values `a,b` and set the member variable `"sum"` to the sum of `a` and `b`.

```
1  /* Class Pair has already been
2  * declared and defined with the
3  * following constructor:
4  *
5  *   Pair(int,int)
6  *
7  * that stores its two arguments in
8  * two private member variables of Pair.
9  *
10 * Class sumPair has also already been
11 * defined as follows:
12 *
13 * class sumPair : public Pair {
14 * public:
15 *   int sum;
16 *   sumPair(int,int);
17 * };
18 *
19 * Implement the constructor
20 * sumPair(int,int) such that it
21 * loads the two member variables of
22 * the base Pair class with its
23 * arguments, and initializes the
24 * member variable sum with their sum.
25 */
26
27 // constructor of sumPair
28 sumPair::sumPair(int a, int b) : Pair( a, b)
29 {
30     sum = a + b;
31 }
32
33
34
35 /* Below is a main() function
36 * you can use to test your
37 * implementation of the
38 * sumPair constructor.
39 */
40
41 int main() {
42     sumPair sp(15,16);
43     std::cout << "sp(15,16).sum =" << sp.sum << std::endl;
44     return 0;
45 }
```

Run

Reset



Correct

Passed all tests!