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.

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

https://www.coursera.org/learn/cs-fundamentals-1/exam/REzG4/week-4-challenge/attempt?redirectToCover=true