3/1/24, 7:23 PM OrderedPair.h

## src/OrderedPair.h

```
1 // Title: OrderedPair.h
   // Desc:
               Header file for OrderedPair.cpp
 3
   // Name:
               An Tran
 5
   #ifndef ORDEREDPAIR H
 6
   #define ORDEREDPAIR H
 7
 8
   class OrderedPair{
9
   private:
        double xVal{0.0}:
10
        double yVal{0.0};
11
12
13
   public:
14
        // constructors
15
        OrderedPair();
        OrderedPair(double xVal, double yVal);
16
17
18
        // getters
19
        double getX();
20
        double getY();
21
22
        // setters
23
        void setX(double newXVal);
24
        void setY(double newYVal):
25
        void setPair(double& newXVal, double& newYVal);
26
        // element-wise arithmetic functions
27
28
        // description: Does calculates using the object's xVal and yVals and returns it
   as a double
29
       // receives:
                        nothing
        // returns:
30
                        double
31
        double addPair();
32
        double subtractPair();
33
        double multiplyPair();
34
        double dividePair(); // has error check for dividing by zero
35
        double powerPair();
36
37
        // pair-wise arithmetic functions
        // description: Replace target object's xVal and yVal with corresponding
38
    calculates of OrderPair object's x and y
39
                        Reference to two OrderedPair objects.
        // receives:
40
        // returns:
                        nothing
41
        void addPair(OrderedPair& obj1, OrderedPair& obj2);
42
        void subtractPair(OrderedPair& obj1, OrderedPair& obj2);
43
        void multiplyPair(OrderedPair& obj1, OrderedPair& obj2);
        void dividePair(OrderedPair& obj1, OrderedPair& obj2); // has error check for
44
   dividing by zero
        void powerPair(OrderedPair& obj1, OrderedPair& obj2);
45
46
47
        // other functions
48
        void displayPair(); // values are expected to be to 6 decimal places
49
   };
50
51
   #endif
```

3/1/24, 7:23 PM OrderedPair.h

52