

Homework Turnin

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Section:	6G
Course:	TJHSST APCS 2016-17
Assignment:	03-04
Receipt ID:	9d00e43c70d70e85cb5de8464bb37d5a

Turnin Successful!

The following file(s) were received:

```
Widget_Driver.java      (1893 bytes)

//name:    date:

import java.io.*;      //the File class
import java.util.*;    //the Scanner class

public class Widget_Driver
{
    public static final int numberOfWidgets = 57;
    public static void main(String[] args) throws Exception
    {
        Comparable[] array = input("widget.txt");
        Selection.sort(array);
        print(array);
    }

    public static Comparable[] input(String filename) throws Exception
    {
        Scanner infile = new Scanner(new File(filename));
        Comparable[] array = new Comparable[24];
        for(int i=0;i<array.length;i++)
            array[i] = new Widget(infile.nextInt(), infile.nextInt());
        return array;
    }

    public static void print(Object[] mango)
    {
        for(Object x : mango )
            System.out.println(x.toString());
        System.out.println();
    }
}

////////////////////////////////////
//name:    date:

class Widget implements Comparable<Widget>
{
    int pounds;
    int ounces;
    public Widget(int x, int y)
    {
        pounds = x;
        ounces = y;
    }
    public int getPounds()
    {
        return pounds;
    }
    public int getOunces()
    {
        return ounces;
    }
}
```

```
public void setPounds(int x)
{
    pounds = x;
}
public void setOunces(int y)
{
    ounces = y;
}
public String toString()
{
    return pounds + " lbs., " + ounces + " oz.";
}
public int compareTo(Widget other)
{
    if(pounds == other.getPounds() && ounces == other.getOunces())
        return 0;
    else if(pounds > other.getPounds())
        return 1;
    else if(pounds == other.getPounds() && ounces > other.getOunces())
        return 1;
    else
        return -1;
}
public boolean equals(Widget other)
{
    if(pounds == other.getPounds() && ounces == other.getOunces())
        return true;
    else
        return false;
}
}
```