| NAME: | | STUDENT I | D#: |
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| | (Write your name on THIS DAGE ONLY) | <u>-</u> | (Write your NEILLID# on this and EVEDV DAGE) |

(Write your name on THIS PAGE ONLY)

(Write your NEIU ID# on this and EVERY PAGE)

PRACTICE FINAL

CS 207, Programming II Saturday, 201X 11:00 a.m. to 1:00 p.m. Room LWH XXXX

EXAM PROBLEMS

Instructions:

- 1. Do not turn this page until told to do so.
- This exam is *closed book* and *closed notes*.
- 3. Write your STUDENT ID Number on every page. If you do not write your ID Number on a certain page, you will not receive credit for the question on that page!
- There are 6 questions on the exam, one per page. Once you start, verify you have all 6 questions.
- 5. You must give your answer to a question on the same page on which the question appears. If you put your answer on a different page, you will not receive any credit for it!
- 6. For problems that ask you to write a *method*, you must write the method header *exactly* as shown, but you do not need to write main().
- 7. For problems that ask you to write a *program*, you should write the main() method *only*—you can assume the following import statement and keyboard declarations are present.

import java.util.*;

Scanner keyboard = new Scanner (System.in);

- Scanner kbd = new Scanner (System.in); or
- Scanner input = new Scanner (System.in); or
- For tracing problems, assume that any appropriate import statements are provided.
- You may use "SOP" as an abbreviation for "System.out.print" and "SOPIn" for "System.out.println".
- 10. You do not need to do any error checking of input values, unless the problem specifically asks you to do so!
- 11. If you are caught looking at other papers or communicating with other students in any way, you will receive an F for the course.

Problem 1 (XX points).

Please write the exact output of class PlaneApp in the box provided on the corresponding page of the Answer Packet .

```
public class Plane{
                                                 public class CargoPlane extends Plane{
   private String name;
                                                    private String type ;
   private int callNumber;
                                                    public CargoPlane(){
                                                                                   //name, call number
   public Plane(String n, int identifier)
                                                        super("Bravo", 239);
                                                               type="commercial";
       name = n;
       callNumber = identifier;
                                                    public CargoPlane(String n, String t){
                                                        super(n, 727);
   public String getName(){
                                                        type = t;
       return name;
                                                    public String getType() {return(type);}
   public int getCallNumber(){
       return callNumber;
                                                    public void displayProperties(){
                                                        System.out.println(super.getCallNumber());
   public void setCallNumber(int cn){
                                                        System.out.println("Very Fast");
                                                        super.displayProperties();
       callNumber = cn;
                                                    }
   }
   public String toString(){
                                                    public boolean equals(Object that)
       displayProperties();
       return "Plane: " + name;
   }
                                                        System.out.println("Fancy Plane");
   public void displayProperties(){
                                                        CargoPlane cpThis = (CargoPlane)this;
     System.out.println("One Classy Plane");
                                                        CargoPlane cpThat = (CargoPlane)that;
   }
}
                                                        return(cpThis.getName().equals(cpThat.getName()));
                                                    }
public class PlaneApp
  public static void main(String [] args){
       Plane p = null;
       CargoPlane cp1 = new CargoPlane();
       CargoPlane cp2 = new CargoPlane("Dottie", "Commercial");
       Plane p1 = new CargoPlane("Chug", cp1.getType());
       Plane p2 = new Plane("Echo", 787);
       Plane [] planes = {p, cp1, cp2, p1, p2, null};
       planes[0] = cp2;
       System.out.println(cp1.equals(planes[0]));
       cp1.displayProperties();
       System.out.println(planes[0]);
       System.out.println("Fly the friendly skies");
}
```

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Problem 2 (XX points)

Using the data file below, write a Java program that reads each record, one token at a time and displays each record, one record per line.

The program is to throw the following exceptions:

Sample data file:

FileName: PersonDataFile_1.txt

Martha Smith 259

Jorge Rodriguez 878

Matilda Rushpowara 962

Benton Marks 254