

CS 1331 Exam 1

Fall 2016

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- Failure to properly fill in the information on this page will result in a deduction of up to 5 points from your exam score.
- Signing signifies you are aware of and in accordance with the **Academic Honor Code of Georgia Tech** and that you will not discuss this exam with other students.
- Calculators and cell phones are **NOT** allowed.
- This is an object-oriented programming test. Java is the required language. Java is case-sensitive. **DO NOT WRITE IN ALL CAPS.** A Java program in all caps will not compile. Good variable names and style are required. Comments are not required.

Question	Points per Page	Points Lost	Points Earned	Graded By
Page 1	24	- 0	= 24	ep
Page 2	10	- 2	= 8	AK
Page 3	6	- 2	= 4	RV
Page 4	4	- 0	= 4	RV
Page 5	10	- 1	= 9	M
Page 6	10	- 0	= 10	HP
Page 7	20	- 1	= 19	mm
Page 8	0	-	=	
TOTAL	84	- 0	= 78	nc

Great job!

3. Short Answer

- [2] (a) Write the header for the method you need to define in a class to make it executable from the command line.

✓ `public static void main (String[] args)`

- [2] (b) Assume you are at the command line in the directory of the file that contains the definition for a Java class named `Avengers`. Write the command to compile `Avengers`.

✓ `javac Avengers.java`

- [2] (c) If the command above executes successfully, what file will be produced?

✓ `Avengers.class`

- [2] (d) Write the command that will execute the `Avengers` class you compiled above.

✓ `java Avengers`

- [2] (e) What will the following code print?

```
for (int i = 2; i > 0; i--)  
    System.out.print("Go ");  
    System.out.print("Jackets!");
```

Go Jackets!Go Jackets!

-2 Go Go Jackets!

[2] (d) What is printed on the console by `System.out.println(cars[1].toString());?`

- A. Model: Beetle Year: 1969
- B. Model: VWBeetle Year: 1969
- C. Model: Camaro Year: 1967
- D. Car: null
- ☒ E. None of the above

[2] (e) What is printed on the console by `System.out.println(cars);?`

- A. null
- B. ["Model: ", "Model: ", "Model: "]
- C. ["Model: Camaro", "Model: Beetle", "Model: Jaguar"]
- ☒ D. Something like [LCar;@281emon345]

[10] 6. Class and Object Tracing

```
public class Poodle {  
  
    private static int poodleCount = 0;  
    private String name;  
  
    public Poodle(String name) {  
        this.name = name;  
        poodleCount++;  
    }  
    public void setName(String newName) {  
        name = newName;  
    }  
    public String getName() {  
        return name;  
    }  
    public String toString() {  
        return getName();  
    }  
    public String poodleCounter() {  
        return "I am dog number " + poodleCount + ".";  
    }  
    public static void poodleReport() {  
        System.out.println("There are " + poodleCount + " poodles in this kennel.");  
    }  
}  
  
public class PoodleTester {  
    public static void main(String[] args) {  
        Poodle curly = new Poodle("Curly");  
        System.out.println(curly.poodleCounter());  
        Poodle chloe = new Poodle("Chloe");  
        System.out.println(chloe.poodleCounter());  
        Poodle jenny = chloe;  
        jenny.setName("Jenny");  
        System.out.println(jenny.poodleCounter());  
        System.out.println(curly.poodleCounter());  
        System.out.println(poodleReport());  
    }  
}
```

What is printed when the PoodleTester is run?

I am dog number 1.

I am dog number 2.

I am dog number 2.

I am dog number 2.

There are 2 poodles in this kennel.


```
public class Toaster {
```

```
    private int numSlots; ✓
```

```
    private String songName; ✓
```

```
    public String getSongName() { ✓
```

```
        return songName; ✓
```

```
    }
```

```
    public void setSongName(String name) { ✓
```

```
        songName = name; ✓
```

```
    }
```

```
    public Toaster (int numSlots, String songName) { ✓
```

```
        this.numSlots = numSlots; ✓
```

```
        this.songName = songName; ✓
```

```
    public Toaster () { ✓
```

```
        this (1, "Let It Be"); ✓
```

```
    }
```

```
    public void - 1toast (String item) { ✓
```

```
        System.out.println ("Singing " + songName + " while I toast"
```

```
        + " your " + item + "!"); ✓
```

```
}
```