Java for Non Majors
Sample Midterm Questions
September 25, 2015

The test consists of
1. 15 multiple choice questions
2. 4 “find the output” questions
3. 2 code writing questions
4. 1 code debugging question
5. 3 short answer questions

The multiple choice questions are the hardest questions on the test.
Code debugging is mostly syntax based (missing brackets, etc.)
Making me laugh might gain you points (depends on the quality of the joke).

Sample Questions

1. Which of the following is NOT a Java reserved word?
   (a) public
   (b) static
   (c) void
   (d) main

2. Evaluate the following expression. x = 5, y = 15, z = 3 (All integers)
   \[ x * 4 + y / 2 \% z \]
   (a) 21
   (b) 2
   (c) 2.5
   (d) None of the above

3. A Java variable can begin with
   (a) A letter
   (b) underscore
   (c) ‘$’ sign
   (d) All of the above
4. Write a program to calculate the sum of all the multiples of 3 between 1 and 200.

Sample Run:
The sum is : 6633

5. Write a program to accept the current month, encoded as an integer (1 means January, 2 means February and so on) from the user. If the user entered January, wish them a “Happy New Year”. If they entered any of the Summer months (June, July or August), say “Have fun on your vacation”. Otherwise, just say “Have a nice day”.

Sample Run:

Enter the current month: 1
Happy New Year

Enter the current month: 10
Have a nice day.

6. Figure out the output generated by the following code snippet:

```java
int score = 83;
char grade;

if (score >= 90)
    grade = 'A';
else if (score >= 80)
    grade = 'B';
else if (score >= 70)
    grade = 'C';
else if (score >= 60)
    grade = 'D';
else grade = 'F';

System.out.println("\nStudent grade = " + grade);
```