## Peer Instruction \#12: Java Review

## Operator Precedence, Integer Math

What is the value of the variable answer after the following code is executed?
int answer = 12 + 9/4-2 + 52 / 2 \% 3* 2;

> A. 12
> B. 14
> C. 16

## Conditional Execution: if/else statement

What are the values of salary and taxes after execution of the following code?
double taxes, salary = 50000.0;
if (salary > 15000.0)
taxes = salary * 0.40 ;
else
taxes = salary * 0.30 ;
salary $=\mathbf{2 5 0 0 0 . 0 0 ;}$
B. $50000.0,15000.0$
C. $25000.0,20000.0$
D. 25000.0, 15000.0
E. None of the above!

## Conditional Execution: switch statement

What is the value of the variable count at the end of the following code?
int count $=2$;
char c = ' $\&$ ';
switch (c) \{
case ' $\&$ ': count=5;
case '\%’: count--;
A. count is 1
B. count is 2
C. count is 3
D. count is 4
E. count is 5

## \}

## Iterative Execution: for loop

What does the following code print?
int $i$;
for(i=6; i<=10;i++);
System.out.println(" $i$ is " + $i$ ); D. $i$ is 11
E. Will not compile.

## File Input: Scanner Methods

Given the file contents (red) and code (black), what values are assigned? Assume in is a suitable Scanner.
1.2
hello there
34
double $x=$ in.nextDouble(); String s = in.nextLine(); double $y=$ in.nextDouble();
A. 1.2, "hello there", 34.0
B. 1.2, "hello", 34.0
C. 1.2, "", 34.0
D. Will not compile.
E. Throws exception!

## 1D Arrays: Parameter Passing

What are the values of the elements of the integer array array after the following code?
 $\mathrm{a}[\mathrm{i}] /=2$;
\}
Afray Modiffication

## 2D Arrays: Accessing Elements

What is the value of cArray[2][1] after the following code has executed?
char cArray[][] = new char[3][3];
for (int i=0; i < 3; i++)
for (int j = 0; j < 3; j++)
cArray[i][j] = (char) ('c' + j - i);
A. 'a'
B. 'b'
C. 'c'
D. 'd'
E. 'e'

## Classes, Methods, Data

What does the following code print?
public class Peer \{ static int $\mathrm{i}=12$; int j = 23;
public static void main(...) \{
Peer p1 = new Peer();
Peer p2 = new Peer();
p1.i++; p1.j = 34; p2.i++; p2.j = 45;
System.out.println(p1.i+" "+p1.j+" "+p2.i+" "+p2.j);

