Peer Instruction #3:
Flow of Control
What is the value of `canVote` after execution of the following code?

```java
boolean canVote;
int age = 15;
if (age > 15)
    canVote = true;
System.out.println(canVote);
```

A. true  
B. false  
C. Indeterminate  
D. Will not compile!
What is the value of salary and taxes after execution of the following code?

double salary = 60000.0;
double taxes = 0.0;
if (salary > 30000.0)
    taxes = salary * 0.25;
else
    taxes = salary * 0.15;
salary -= 10000.00;

A. 60000.0, 15000.0
B. 60000.0, 9000.0
C. 50000.0, 15000.0
D. 50000.0, 9000.0
E. None of the above!
What is the value of char1 after execution of the following code?

```java
char char0 = '#', char1 = '$';
if (char0 < '4')
    char1 = '6';
else if (char0 > 'D')
    char1 = 'T';
else
    char1 = '*';
```

A. ‘$’
B. ‘6’
C. ‘T’
D. ‘*’
E. None of the above!

Cascading If
What is the value of percent after execution of the following code?

double percent = 0.30;
if (percent < 0.30)
    if (percent < 0.25)
        percent *= 2.0;
else
    percent *= 3.0;

A. 0.30  
B. 0.60  
C. 0.90  
D. None of the above!
Which is the value of ordered after execution of the following code?

```java
int i = 12, j = 14, k = 16;
boolean ordered;
if (i <= j <= k)
    ordered = true;
else
    ordered = false;
```

A. true  
B. false  
C. Indeterminate  
D. Will not compile!  
E. Will not execute!
Which boolean values are printed by the following code?

```java
boolean b0 = true;
boolean b1 = false;
System.out.println(!b0);
System.out.println(b0 && b1);
System.out.println(b0 || b1);
System.out.println(!(b0 || b1) ^ !b1);
```

A. true, false, true, true
B. false, false, true, false
C. false, false, true, true
D. true, false, true, false
E. None of the above!
What is the value of char0 after the following switch statement?

```java
cchar char0 = '#';
switch (char0) {
    case '%': char0++;  
    case '#': char0++; 
    case '$': char0++;  break;  
    default: char0++; 
}
```

A. ‘#’
B. ‘$’
C. ‘%’
D. ‘&’
E. None of the above.
What is the correct way to declare and instantiate a Scanner object to read from the console?

A. Scanner scanner = new Scanner(System.in);
B. Scanner scanner = new Scanner(System.in);
C. Scanner scanner = new Scanner(System.out);
D. new Scanner = scanner(System.in);
E. None of the above.

Boolean Values
What is wrong with the Java printf statement shown below?

```
System.out.printf("i = %d, j = %5.2f\n", i, j, k);
```

A. Invalid syntax on formatter for j.
B. Cannot apply floating point formatter to j.
C. Missing formatter for k, will get an exception.
D. Missing formatter for k, but will still execute.
E. All of the above.