



Peer Instruction #2: Flow of Control



What is the value of canVote after execution of the following code?

```
boolean canVote;  
int age = 17;  
if (age >= 18)  
    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 = 50000.0;
```

```
double taxes = 0.0;
```

```
if (salary > 15000.0)
```

```
    taxes = salary * 0.30;
```

```
else
```

```
    taxes = salary * 0.20;
```

```
    salary -= 15000.00;
```

- A. 50000.0, 10000.0
- B. 50000.0, 15000.0
- C. 35000.0, 10000.0
- D. 35000.0, 15000.0
- E. None of the above!

If Else Statement



What is the value of char1 after execution of the following code?

```
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 = 0.12;
```

```
if (percent < 0.10)
```

```
    if (percent < 0.15)
```

```
        percent *= 2.0;
```

```
else
```

```
    percent *= 3.0;
```

A. 0.12

B. 0.24

C. 0.36

D. 0.48

E. None of the above!

Dangling Else



Which is the value of ordered after execution of the following code?

```
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?

```
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?

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

- A. '#'
- B. '\$'
- C. '%'
- D. '&'
- E. None of the above.