

CS240

Nathan Sprague

January 11, 2012

First Clicker Question!

What will `numC` contain after the following code executes?

```
1   int numA = 1;
2   int numB = 2;
3   double numC;
4
5   numA += numB;
6   numA = 2 + numA / 2;
7   numC = numA * 2;
```

- A) 4.0
- B) 6.0
- C) 7.0
- D) Nothing. This code contains an error.

Second Clicker Question!

What will be printed when the following code executes?

```
1 String s1 = "Hello There!";
2 String s2 = "Hello";
3 String s3 = s2 + " There!";
4 if (s1 == s3) {
5     System.out.println(s1);
6 } else {
7     System.out.println(s2);
8 }
```

- A) "Hello There!"
- B) "Hello"
- C) " There!"
- D) Nothing. This code contains an error.

Clicker Readiness Quiz 1/3

There will be opportunities to make up any missed in-class activities as long as I am notified in advance that you will be absent.

- A) True
- B) False

Clicker Readiness Quiz 2/3

This course will include a single midterm and a final exam.

- A) True
- B) False

Clicker Readiness Quiz 3/3

PA's may be completed individually or in groups of no more than 3.

- A) True
- B) False

Conditional Statements

```
1  if (a == b)
2  {
3      if (b == c)
4          method1()
5      else
6          method2()
7  }
```

```
1  if (a == b && b == c)
2      method1()
3  else
4      method2()
```

```
1  if (a == b && b == c)
2      method1()
3  else if (a == b)
4      method2()
```

Which are equivalent?

- A) top, middle
- B) top, bottom
- C) middle, bottom
- D) all three
- E) none

For Loops

```
1 for (int i = 0; i < 2; i++) {  
2     for(int j = i; j < 3; j++) {  
3         System.out.println(i + " " + j);  
4     }  
5 }
```

A)

0	0
0	1
0	2
1	0
1	1
1	2

B)

0	0
0	1
0	2
1	1
1	2

C)

0	0
1	0
2	0
1	1
2	1

D)

0	0
0	1
0	2
0	3
1	1
1	2
1	3
2	2
2	3

Reading Code 1/2

```
1 public static int[] r(int[] d)
2 { // Declare one of the values
3   int a;
4   int x = 1;
5   int dd = d[0]; // assign d
6   /* Initialize*/
7   a = d[0];
8   while (x <
9     d.length){
10    if (d[x]<dd){dd=d[x];}
11    if (d[x] > a)
12      a = d[x];
13    x = 1 + x; // Update
14  }
15  int[] c;
16  c = new int[2];
17  c[0] = dd; c[1] = a;
18  return c;}
```

Input: {5, 4, 7, 2}.

Output?

A) {5, 4}

B) {2, 7}

C) {5, 5}

D) {5, 4, 7, 2}

E) Error

Reading Code 2/2

```
1 public static int [] minMax(int [] data)
2 {
3     int [] results = new int [2];
4     int currentMin = data [0];
5     int currentMax = data [0];
6
7     for (int i=1; i < data.length; i++)
8     {
9         if (data [i] < currentMin)
10            currentMin = data [i];
11
12        if (data [i] > currentMax)
13            currentMax = data [i];
14    }
15    results [0] = currentMin;
16    results [1] = currentMax;
17
18    return results;
19 }
```

Input: {5, 4, 7, 2}.

Output?

- A) {5, 4}
- B) {2, 7}
- C) {5, 5}
- D) {5, 4, 7, 2}
- E) Error