CS61BL Quiz 01

Name:	SID:

Section Number:

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Write your name and Cal ID number above. Bubble in your section number. Complete this quiz without using a Java interpreter, and without consulting anyone other than CS 61BL staff.

1. Buggy Leap Year

The following **buggy** code segment was proposed as a solution to the leap year exercise from lab 1. (Recall that a leap year is either divisible by 400, or divisible by 4 but not by 100.)

```
if (year % 400 != 0) {
    System.out.println (year + " is not a leap year");
} else if (year % 100 != 0) {
    System.out.println (year + " is a leap year");
} else if (year % 4 != 0) {
    System.out.println (year + " is not a leap year");
} else {
    System.out.println (year + " is a leap year");
}
```

Put an X in the correct boxes in the table below to reveal the mistakes this program makes. The first two columns have been filled out for you.

	This is a leap year	This is not a leap year	The program says this is a leap year	The program says this is not a leap year
1900		X		
1904	X			
1905		X		
2000	X			

2. Do you Git it?

Recall the Git commands init, add, commit, status, log, show, clone, pull, and push. Bubble in the circle next to the command which allows you to...

1.			acking a file:						
	_ init	add	_ commit	status	Olog	Show	○ clone	O pull	o push
2.			f the files bei		\bigcirc log	show	○ clone	O pull	O push
3.			e changed sir			\bigcirc show	_ clone	○ pull	o push
4.			ous commits:		\bigcirc log	o show	<pre>clone</pre>	O pull	o push
5.			y of a remote		\bigcirc log	show	<pre>clone</pre>	O pull	O push
6.			tracked files				<pre>clone</pre>	○ pull) push

3. MultiSwap

```
public void swap(int x, int y) {
       int temp = y;
       y = x;
       x = y;
   }
   public static void multiplyBy2(int[] A) {
       int[] B = A;
       for (int i = 0; i < B.length; i++) {</pre>
          B[i] = B[i] * 2;
       }
   }
   public static void multiplyBy5(int[] A) {
       int[] temp = new int[A.length];
       for (int i = 0; i < temp.length; i++) {</pre>
          temp[i] = 5 * A[i];
       }
       A = temp;
   }
   public static void main(String[] args) {
       int a = 5;
       int b = 10;
       swap(a, b);
       int[] arr;
       arr = new int[]{1, 2, 3, 4};
       multiplyBy2(arr);
       arr = new int[]{1, 2, 3, 4};
       multiplyBy5(arr);
   }
What are the values of a and b after main is run?
                             b: _____
What is the value of arr after multiplyBy2 is run?
                                       }
arr : {
What is the value of arr after multiplyBy5 is run?
                                       }
arr : {
```