

Monday, September 19, 2016

Name: \_\_\_\_\_

- 1) Write a function that takes three booleans and returns them all smushed together into a String. Use `Boolean.toString()` to convert each boolean to a String. [20 points]
- 2) Create an `ArrayList` of `Booleans` and add the following five items in this order: `true`, `false`, `true`, `true`, `true`. [20 points]
- 3) Say you have an `ArrayList` named `soccerStars` that you don't know the length of. Write code to print "so many" if `soccerStars` contains more than 15 elements. [20 points]

4) What does the following code print? [20 points]

```
ArrayList<Integer> nums = new ArrayList<Integer>();
for (int i = 0; i < 5; i++) {
    nums.add(i * 2);
}
for (int i = 0; i < nums.size(); i++) {
    if (nums.get(i) % 3 == 0) {
        System.out.println(nums.get(i));
    }
}
```

5) Assume we have the Cat class from the previous lecture, and that the constructor takes zero arguments. Create two Cat objects, create an ArrayList that holds Cat objects, and put the Cat objects in the ArrayList. [20 points]

6) Say we have the array nums defined below. Add code to replace each existing element with one triple its value (do not create a new ArrayList). [extra credit, 20 points]

```
ArrayList<Integer> nums = new ArrayList<Integer>();
for (int i = 0; i < 5; i++) {
    nums.add(i);
}
```