

Name: _____ Andrew Id: _____

15-121 Fall 2018 Quiz 3

Up to 15 minutes. No calculators, no notes, no books, no computers. Show your work!
There are questions on *both sides* of this paper.

1. (10 points) **Free Response:** Write the public, static method `isIncreasing` which, given an array of integers `arr`, returns `true` if the integers are stored in increasing order and `false` otherwise.

2. (4 points) **Short Answer**

In just a few words, what's the difference between a checked and unchecked exception?

3. (6 points) **Code Tracing:** Indicate what the following program prints. Place your answer (and nothing else) in the box under the code. Note that there are two print statements.

```
public class Quiz3Ct {
    int[] data;

    public Quiz3Ct(int a, int b) {
        data = new int[b-a];
        for(int i = 0; i < b-a; i++) {
            data[i] = a+i;
        }
    }

    public int mystery() {
        int a = data.length/2;
        int b = 0;
        for(int i = 0; i < a; i++) {
            int c = data[i];
            b += c;
            data[i] = data[data.length-i-1];
            data[data.length-i-1] = c;
        }
        return b;
    }

    public String toString() {
        return "121: "+Arrays.toString(data);
    }

    public static void main(String[] args) {
        Quiz3Ct var = new Quiz3Ct(5,10);
        System.out.println(var.mystery());
        System.out.println(var);
    }
}
```