

Lab 2

Objectives

- Exposure to testing
- Practice writing static methods that take Objects and arrays of Objects as parameters

Part I

1. Download `Lab2Tester.java`, `Lab2.java` and `Student.java` to your Lab2 working directory.
2. Compile and run `Lab2Tester.java` There should be no errors.
3. Complete the methods in `Lab2.java` and overviewed in the following UML diagram.
 - a. The documentation for each method is in `Lab2.java`
 - b. Write and test each method **one at a time**.

Lab2
+ getHigherGradeStudent(Student, Student): Student + isGradeAbove (Student, int): boolean + getClasslist(Student[]): String[] + countAbove(Student[], int): int + getClassAverage(): double + registerStudent(Student[], Student): Student[]

Student
- sID: String - grade: int
+ Student() + Student (String, int) + getSID(): int + setSID(String): void + getGrade(): int + setGrade(int): void + toString(): String + equals(Student): boolean

CHECK POINTS – get your lab TA to check off after you have completed the following checkpoints. They will want to see the output as well as your tests.

CHECK POINT 1: `getHigherGradeStudent` and `isGradeAbove`

CHECK POINT 2: `getClasslist` and `countAbove`

CHECK POINT 3: `getClassAverage` and `registerStudent`

Finished early – start your Assignment!