# ErrorLog: CourseGrades

Youdis

```
Grade for test 5: 5
Student 12
Grade for test 1: 5
Grade for test 2: 5
Grade for test 3: 5
Grade for test 4: 5
Grade for test 5: 5
Please enter student whose average you want: 5
Their average is: 5.0Please which test's average you want to see:
5
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 5 out of bounds for length 5
        at Mastery.GradeBook.testAvg(GradeBook.java:46)
        at Mastery.CourseGrades.main(CourseGrades.java:27)
```

```java
public double testAvg(int testNum) {
    int Avg = 0;
    for(int student = 0; student < grades.length; student++) {
        Avg =+ grades[student][testNum];
    }
    return (Avg/12);
}
```

```java
Scanner input = new Scanner(System.in);
GradeBook stuGrades = new GradeBook();
stuGrades.getGrades();
stuGrades.showGrades();
System.out.print("Please enter student whose average you want: ");
System.out.print("Their average is: " + stuGrades.studentAvg(input.nextInt()));
System.out.println("Please which test's average you want to see: ");
System.out.print("The average is: " + stuGrades.testAvg(input.nextInt()));
```

Won't access test 5 and the output is squished together instead of being on separate lines.

```
<terminated> CourseGrades [Java Application] C:\Program Files\Eclipse\eclipse\plug
Grade for test 3: 5
Grade for test 4: 5
Grade for test 5: 5
Student 12
Grade for test 1: 5
Grade for test 2: 5
Grade for test 3: 5
Grade for test 4: 5
Grade for test 5: 5
Please enter student whose average you want: 4
Their average is: 5.0
Please which test's average you want to see: 5
The average is: 0.0
```

```java
public double testAvg(int testNum) {
    int Avg = 0;
    for(int student = 0; student < grades.length; student++) {
        Avg =+ grades[student][testNum-1];
    }
    return (Avg/12);
}
```

```java
Scanner input = new Scanner(System.in);
GradeBook stuGrades = new GradeBook();
stuGrades.getGrades();
stuGrades.showGrades();
System.out.print("Please enter student whose average you want: ");
System.out.print("Their average is: " + stuGrades.studentAvg(input.nextInt()));
System.out.println("");
System.out.print("Please which test's average you want to see: ");
System.out.println("The average is: " + stuGrades.testAvg(input.nextInt()));
```

Fixed it by minusing the parameter testNum by 1 when indexing for which test's grades to add up since index starts at 0 so for an array with 5 elements it will only index up to 4. Fixed the output not being on separate lines by adding an empty println statement to separate the student average message and the test average message.