Bug Report: Exercise 3

# Author

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# Bugs Discovered

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| Bug # | Test Case | Description of bug | class |
| 1 | addCourse\_Null | Null values result in an uncaught runtime exception | StudentTimeTable |
| 2 | addCourse\_OneRegularCourse\_DefaultMaxCourses | Out of bounds exception when adding course when the time table maxCourses value is 0 | StudentTimeTable |
| 3 | addCourse\_OneRegularCourse\_MaxCoursesNegative | Out of bounds exception when adding course when the time table maxCourses value is negative | StudentTimeTable |
| 4 | addCourseTest\_OverlapCoursesDifferentTimes\_MaxCoursesLarge | Failure: Was able to add a course with same name and code but different time. So course existed with different time. | StudentTimeTable |
| 5 | addCourseTest\_ExclusionOverlapCourses\_MaxCoursesLarge | Failure: Added a course with exclusion to a table with a course on the exclusion list | StudentTimeTable |
| 6 | addCourseTest\_ExclusionOverlapCoursesExistsInTable\_MaxCoursesLarge | Failure: Added a course to a table with another course that excluded it | StudentTimeTable |
| 7 | printTimeTableTest\_MultipleCoursesDifferentOrder | Failure: printed courses in order added to the ArrayList, not chronological as specified in javadoc | StudentTimeTable |
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| 8 | constructorTest\_NullAndZeroWithExceptions | Null pointer Exception when constructing a course with inputs (null, null, null, 0, 0) | SingleLectureCourse |
| 9 | constructorTest\_NullAndZeroExceptNameWithExceptions | Null pointer Exception when constructing a course with inputs (“SampleName”, null, null, 0, 0)  Note: same error trace as above | SingleLectureCourse |
| 10 | setCourseCodeTest\_Null | Null pointer Exception when using setCourseCode method with input of null | SingleLectureCourse |
| 11 | setExcludedCourseTest\_ProperCourseNullField | Null pointer Exception when inputting a Course into setExcludedCourse() when the excludedCourses field is null, bug also occurs when field is not initialized in the constructor. Failure Trace noted line 75 for the original code | SingleLectureCourse |
| 12 | setExcludedCourseTest\_NullList | Null pointer Exception when inputting null casted as ArrayList<Course> into setExcludedCourse(). Failure Trace noted line 80 for the original code | SingleLectureCourse |
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