**COMPSCI 230 Assignment 3**

**2014 S2**

**Test Design Example**

*Student ID* **5521999**

*Student name* **KyominKu**

***Method under test***

public boolean enrolStudentInPaper(int studentId, String paperName)

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| --- | --- | --- |
|  | **Method inputs** | **Tests** |
| **Invalid parameters** | Enrol invalid “negative” student (id -2135) in paper delivered this semester (Phys01) | Should throw IllegalArgumentException |
| The paper should not be in the student's list of papers |
| The student should not be in the paper's list of students |
| Enrol valid student (id 2135) in invalid “empty string” paper delivered this semester (“”) | Should throw IllegalArgumentException |
| The paper should not be in the student's list of papers |
| The student should not be in the paper's list of students |
| Enrol valid student (id 2135) in invalid “null” paper delivered this semester (null) | Should throw NullPointerException |
|  | The paper should not be in the student's list of papers |
|  | The student should not be in the paper's list of students |
| **Boundary values** | Enrol first valid student (id 1011) in paper delivered this semester (Phys01) | 'enrolStudentInPaper()' should return 'true' |
| The paper should be in the student's list of papers |
| The student should be in the paper's list of students |
| **Mid-range** | Enrol valid student (id 2135) in paper delivered this semester (Phys01) | 'enrolStudentInPaper()' should return 'true' |
| The paper should be in the student's list of papers |
| The student should be in the paper's list of students |
| **Invalid usage** | Enrol valid student (id 2135) in paper not delivered this semester (Phys02) | 'enrolStudentInPaper()' should return 'false' |
| The paper should not be in the student's list of papers |
| The student should not be in the paper's list of students |
| Enrol invalid student (id 1234) in paper delivered this semester (Phys01) | 'enrolStudentInPaper()' should return 'false' |
| The paper should not be in the student's list of papers |
| The student should not be in the paper's list of students |