**COMPSCI 230 Assignment 3**

**2014 S2**

**Test Design Example**

*Student ID* : 8476927

*Student name* : Hao CHEN

***Method under test***

public boolean enrolStudentInPaper(int studentId, String paperName)

|  |  |  |
| --- | --- | --- |
|  | **Method inputs** | **Tests** |
| **Invalid parameters** | Enrol invalid student (id -100) in paper delivered this semester (Geol01) | 'enrolStudentInPaper()' should throw 'java.lang.IllegalArgumentException' |
|  | Enrol valid student (id 0) in paper delivered this semester (Geol01) | 'enrolStudentInPaper()' should throw 'java.lang.IllegalArgumentException' |
|  | Enrol invalid student (@#$%) in paper delivered this semester (Geol01) | 'enrolStudentInPaper()' should throw 'java.lang.IllegalArgumentException' |
|  | Enrol valid student (id 1011) in an invalid paper delivered this semester (null) | 'enrolStudentInPaper()' should throw 'java.lang.NullPointerException' |
|  | Enrol valid student (id 1011) in an invalid paper delivered this semester () | 'enrolStudentInPaper()' should throw 'java.lang.IllegalArgumentException' |
|  |  |  |
| **Boundary values** | Enrol valid student (id 1011) in paper delivered this semester (Geol01) | '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 |
|  | Enrol valid student (id 2044) in paper delivered this semester (Math01) | '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 1892) 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 invalid student (id 100) in paper delivered this semester (Geol01) | 'enrolStudentInPaper()' should return 'false' |
|  | Enrol valid student (id 1011) in an invalid paper delivered this semester (Geol02) | 'enrolStudentInPaper()' should return 'false' |
|  | Enrol valid student (id 100) in an invalid paper delivered this semester (Geol02) | 'enrolStudentInPaper()' should return 'false' |