Zachary Rich

**Lab 4**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Location** | **Bug Description** | **Code Change** |
| retrieveStudentBySID() | Null check before int foundPosition | Failure to check if search key is null | Added  If(searchKey != null) |
| findPositionWithMatchingKey() | Int index | Index is set to 1, should be 0 | Int index = 1;  To  Int index = 0; |
| findPositionWithMatchingKey() | While statement | Is <=, Should be < | Changed the <= to < |
| removeStudentBySID() | nextEmptyPostion--; | Sets position to null | elements[nextEmptyPosition - 1] = null;  to nextEmptyPosition--; |
| retrieveCollectionFromDisk() | IllegalArgumentException | Should be StudentCollectionException | Changed IllegalArgumentException to StudentCollectionException |
| addStudent() | If statement line 159 | < allows overflow of collection | Changed < to <= |
|  |  |  |  |