**Black Box Test Plan: GraduateInformation program**

**Document Author:**

**Date:**

**Test Files:** graduates.txt, smallGraduates.txt

**Test Cases**

| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| --- | --- | --- | --- |
| testNoCommandLineArgs  Author:  Dr. Balik | $java GraduateInformation | Usage: java GraduateInformation filename |  |
| testTwoCommandLineArgs  Author:  Dr. Balik | $java GraduateInformation  graduates.txt another.txt | Usage: java GraduateInformation filename |  |
| testNonexistingFile  Author:  Dr. Balik | $java GraduateInformation junk.txt | Unable to access input file: junk.txt |  |
| testMenuOption  Author:  Dr. Balik | $java GraduateInformation  graduates.txt | Menu is displayed and user is prompted for option |  |
| testInvalidOption  Author:  Dr. Balik | $java GraduateInformation  graduates.txt  Option: xyz | Invalid option  Menu is redisplayed and user is prompted for option |  |
| testInvalidDegree  Author: |  |  |  |
| testInvalidYear  Author: |  |  |  |
| testStatistics  Author:  Dr. Balik | $java GraduateInformation  smallGraduates.txt  Option: s | Number of graduates: 8  By degree  B.S.: 3  M.S.: 3  Ph.D.: 2  By year  1960-69: 1  1970-79: 2  1980-89: 1  1990-99: 2  2000-09: 2  2010-19: 0 |  |
| testList  Author: | $java GraduateInformation  smallGraduates.txt  Option: L |  |  |
| testDegree  Author: | $java GraduateInformation  smallGraduates.txt  Option: d |  |  |
| testYear  Author: | $java GraduateInformation  smallGraduates.txt  Option: Y |  |  |
| testQuit  Author:  Dr. Balik | $java GraduateInformation  graduates.txt  Option: Q | Outputs Goodbye!  Program quits. |  |