**General Method used in testing**

* System Testing through the console to check for bugs in the output
* Using junit to perform unit, test, integration test and system test
* Create a “BugTest” source folder which contains all the Junit testing for the program
* “BugTestFiles” folder contains the input and expected output files for the application
  + Folders are labelled according to the application it was used. E.g. wcFiles, sortFiles

**Bug Reports**

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| --- | --- | --- | --- |
| No. | Description | Testcase | Comments |
| 1 | “echo r\*” does not print out “r\*” but instead globbing takes effect and prints out “readme.txt” | TestBugEchoApp.java   * echoGlobbing ()   Command   * echo r\* |  |
| 2 | This bug is due to not using regex. If a file contains "/ello" and I want to convert "/" into “H” to produce “Hello”, it is not possible. | TestBugSedApp.java   * replaceDivisionCharacterToLetterHFromInputStream ()   Command   * echo /ello | sed s///H/ |  |