

Summary for the Hackathon bug fixes:

All bugs found in the hackathon have been fixed. All new test cases have been passed. The test file is Hackathon.java. The Testcase column means the name of the method in the Hackathon.java and we also added these test cases into relative unit test modules and integration test modules.

Bug Report

Bug Report Number	Description	Status	Testcase	Comments
1	Quoted command that is not enclosed properly does not return error message, it is stated in 7.1.2 Quoting part of the project description that quoted arguments should enclosed properly, else it should warn the user of the incorrect syntax	Fixed	testNotEnclosedQuotedCommand	
2	Output redirection with no whitespace is not handled correctly, for example, running the right test case output "abc>aaa.txt" to aa.txt instead of "abc" to aaa.txt, which supposed to be the correct behavior	Fixed	<u>testOutputRedirectionWithoutWhitespaces</u>	
3	It is stated in 7.1.2 Quoting part that backquoted arguments should not have any backquote inside, but this is not handled as no error message is returned and the shell behaves normally to this incorrect syntax.	Fixed	<u>testBackquoteInsideBackquoteCommand</u>	
4	Globbering symbol is not working, running the right command in the provided shell returns "is no directory" instead of all the file paths in the current directory, which supposed to be the correct behavior	Fixed	testUnquotedGlobbing	
5	The disable behavior of quoted globbing is not handled properly, running the right command in the provided shell returns shell exception "shell: Shell not completed" instead of returning *, which supposed to be the correct behavior	Fixed	testQuotedGlobbing	
6	Cal does not handle invalid year inputs	Fixed	<u>testCalInvalidNegative</u>	

			<u>veYear</u>	
7	Valid head commands does not work on MAC platform. Error lies in hard coded file separator which was supposed to be replaced by java file.separator	Fixed	testHeadValidArgsOnMac	
8	Valid tail commands does not work on MAC platform. Error lies in hard coded file separator which was supposed to be replaced by java file.separator	Fixed	<u>testTailValidArgsOnMac</u>	
9	Pwd does not print newline. Required by project description.	Fixed	testPwd	
10	Sed does not handle unterminated regular expression.	Fixed	testSedUnterminated	
11	Wc does not print the filename (as they assumed the app needed to) if the file to count is sent in via the input operator "<".	Rebutted	null	
12	The leap year is not handled by cal. It doesn't prints 29/2	Fixed	testCal2016	
13	head doesn't handle invalid options, the application still proceeds to print the lines.	Fixed	<u>testHeadInvalidOption</u>	
14	tail doesn't handle invalid options, the application still proceeds to print the lines.	Fixed	testTailInvalidOption	
15	Head does not handle multiple options input.	Fixed	testHeadMultipleValidOptions	
16	Tail does not handle multiple options input	Fixed	testTailMultipleValidOptions	
17	Head does not handle invalid line numbers. It still prints 10 lines.	Fixed	testHeadNegativeLineNumber	