Group I

Bug Report No.	Description	Testcase	Comments
1.	File names with flags as names (i.ed.txt) rm - File named "-d" or "-r" cannot be removed with rm command. "Missing Argument" error thrown. Same goes for Directories and text files named a similar fashion. cp - copy has the same issue as the above. diff - diff command has the same issue as the above. wc - wc command has the same issue as the above.	rm -d rm -r rm -d "-d" rm -d "-r" rm -d.txt rm -r.txt	
2.	rm - Program exits with exit code 0 and throws a "null" message when trying to remove a directory containing a directory with no permissions recursively.	rm -r test (test contains another directory with no permissions)	
3.	paste - Program throws "Null arguments" error when trying to input a file. However, we noted that the following command still works: "paste - < test.txt"	paste < test.txt	
4.	paste - Program still generates an empty output file despite throwing an error of "Permission denied" when one or two of the input files have no permissions.	paste test.txt test2.txt > testing.txt (where either or both test.txt and test2.txt has no permissions)	
5.	I/O redirection of intput/output I/O redirection of output into a file with no permissions will result in a "No such file or directory" error instead of a "Permission denied" error. I/O redirection of input into a	sed "s/^/> /" test.txt > file.txt echo "test" > file.txt diff test.txt test2.txt > file.txt paste < file.txt	

	command with no permissions will result in "No such file or directory" error instead of a "Permission denied" error.	(where file.txt has no permissions)	
6.	sed - X value in the replacement rule does not seem to work at all. Only 1 works as intended, and other numbers don't seem to have any effect.	sed "s/^/> /2" file.txt (where file.txt's contents are: A B C and B does not get	
		replaced although it is the 2nd match)	
7.	diff - Program output error message that does not fit the situation. It did not detect whether the given file/directory is valid.	diff validFile.txt nonexist diff nonexist validDir diff nonexist1 nonexist2	
	It just threw a "diff: Can not diff between a file and a directory" error		
	Similarly, this occurs when one or both of the files have no permissions (threw "No such file or directory" error)		
8.	diff - Executing diff command on two same mp3 files (each is 7.4mb) causes the program to exit with error code 1, throwing the following:	diff test.mp3 test2.mp3 (where test.mp3 and test2.mp3 are identical files)	
	"java.lang.OutOfMemoryError: Java heap space" error with no exception caught. The same occurs even if both are	diff test.mp3 test2.mp3 (where test.mp3 and test2.mp3 are different files)	
	different mp3 files.		
9.	diff - Executing diff command on a text file and an MP3 file outputs gibberish instead of "Binary files xxx and xxx differ" message.	diff test.mp3 test.txt diff test.gif test2.gif (where test.gif and test2.gif are different)	
	The same occurs when trying to execute diff command on two different binary files. The expected output should be "Binary files xxx and xxx differ" but instead,	diff test.bmp test2.bmp (where test.bmp and test2.bmp are different)	

	gibberish was output.		
10.	diff - Diff command could not work when there is a common directory in both directory. There are two directories, test1 that contain A.txt, test2 that contain B.txt. A common directory "common" is also in both directory. However, diff command failed. C:\repos\I> diff test1 test2 diff: shell: No such file or directory	diff test1 test2 (test1 contain A.txt, test2 contain B.txt, both contain common.txt, common)	
11.	diff - Command could not print subdirectory files. In relation to the immediate above test case, the directory test1 now contains A.txt, a subdirectory common which contains testa.txt, whereas directory test2 contains B.txt. However, the diff command did not show that test1 contains common\testa.txt C:\repos\I> diff test1 test. Only in test1: A.txt Only in test2: B.txt Only in test1: common	Diff test1 test2 (test1 contain A.txt, common, common\testa.txt, test2 contain B.txt)	
12.	mv - Source folder with a folder that does not have permission inside was not moved, but it did not give a permission error. Instead, it gave the message "C:\Users\movefolder -> C:\repos\I\movefolder". The message may cause confusion indicating that the folder was moved to the destination, but it was actually not moved.	mv C:\Users\movefolder .	
13.	grep - Grep hangs application when incorrect command is entered.	grep test	

14.	grep - Command hangs when backquote is the search term C:\repos\I> grep "`" test1.t.	grep "" test1.txt	
15.	cp - Command did not account for copying a file to itself. Different kind of path to the destination file is tested. The file is instead deleted after the operation is executed.	cp test6.txt test6.txt cp test5.txt . cp test4.txt DIR_path\ cp test3.txt DIR_PATH\test3.txt	
	<pre>C:\repos\l> cp test6.txt test6.txt C:\repos\l\test6.txt C:\repos\l> cp test5.txt . C:\repos\l\test5.txt C:\repos\l> cp test4.txt C:\repos\l\ C:\repos\l\test4.txt C:\repos\l\test3.txt C:\repos\l\test3.txt C:\repos\l\test3.txt</pre>		
16.	cp - Command did not account for copying of files that did not exist. No proper message is thrown to inform the user that the copy had failed.	cp nonexist.txt nonexist2.txt mv nonexist.txt VALID_PATH\test5.txt	
	C:\repos\I> cp nonexist.txt nonexist2.t C:\repos\I\nonexist.txt Similarly, this is also for moving a file that does not exist C:\repos\I> mv nonexist.txt C:\repos\I\test5. C:\repos\I\nonexist.txt		
17.	mv - Command allowed moving of a file to itself for certain situations which is inconsistent. For instance moving a file to itself with respective to local path or exact path is allowed but using "." to indicate local directory is not allowed	mv test3.txt test3.txt mv EXACT_PATH\test3.txt EXACT_PATH\test3.txt Mv test3.txt EXACT_PATH Mv test2.txt.	
	The latter two commands in the screenshot will delete the move file instead and no proper message is thrown to inform the user that the move had failed.		

	<pre>C:\repos\I> mv C:\repos\I\test3.txt C:\repos\I\test3 C:\repos\I> mv test3.txt test3.txt C:\repos\I> mv test3.txt . C:\repos\I\test3.txt C:\repos\I\test3.txt C:\repos\I\test2.txt C:\repos\I\ C:\repos\I\test2.txt C:\repos\I> mv test2.txt</pre>		
18.	diff - Unable to test for diff command with file as stdin. It will throw "diff: Insufficient arguments".	Paste test1.txt diff test2.txt Diff test1.txt < test2.txt	
	Furthermore, Assumptions document contains incomplete assumptions - i.e. the last line of diff assumptions writes: "While diff between stdin with file, no matter what arg order is given, the". This made testing difficult as assumptions were unclear.		
	C:\repos\I> paste test1.txt diff test2. diff: Insufficient arguments C:\repos\I> diff test1.txt < test2.txt diff: Insufficient arguments		
19.	Command Substitution - This is not working. For the example given in the project description, "paste 'ls x^* ' > all.txt", it is not working as intended.	paste `ls x*` > all.txt	
	<pre>C:\repos\I> paste `ls x*` > all.tx Illegal char <:> at index 6: xxxxx</pre>		
20.	ls + globbing - Inconsistent line spacing shown / additional new lines.	ls EXACT_PATH ls *	
	When Is is used on current directory, all of the content are listed without space as follow		

			1
	C:\repos\I> ls C:\repos\I		
	.\:		
	.idea		
	all.txt		
	all2.txt		
	Assumptions.pdf		
	CS4218-Shell-2020.iml		
	pom.xml		
	README.md		
	src		
	target		
	test1.txt		
	test2.txt		
	xxxxxx		
	_test		
	MACOSX		
	However the command "ls *",		
	there is inconsistent spacing. Part		
	of the output		
	C:\repos\I> ls *		
	.idea:		
	.name		
	checkstyle-idea.xml		
	compiler.xml		
	encodings.xml		
	libraries		
	misc.xml		
	modules.xml		
	workspace.xml		
	Assumptions.pdf		
	ASSumpcions.pur		
	CC4240 CL 11 2020 ' 1		
	CS4218-Shell-2020.iml		
	README.md		
21.	globbing - This does not work with	echo .*\	
	subdirectories.	echo .*\test.txt	
	C.\		
	C:\repos\I> echo .*\		
	.*\		
	C.\\ T\		
	C:\repos\I> echo .*\test.txt		
	Illegal char <*> at index 2: .*		
22.	IO redirection + paste - Error is	paste < test1.txt	
22.	thrown. The test is an example	Paste Costitute	
	from project description page 9.		

	There is no assumption that paste does not work with stdin. C:\repos\I> paste < test1.txt paste: Null arguments		
23.	IO redirection + wc - The first input file is missing C:\repos\I> wc < test1.txt test2.txt test3.tx 2	wc < test1.txt test2.txt test3.txt paste test1.txt test2.txt wc	
	C:\repos\I> paste test1.txt test2.txt 2 6 28		
24.	mv - Assumption in mv is bugged Assumptions: • When target is a exist file/folder: • mv file1 file2, • without -n flag: exception • given -n flag: replace • mv file1 folder1 • move file1 into folder1 • mv folder1 folder2,	mv move1 move2 mv -n move1 move2	
	without -n flag: move folder1 into folder given -n flag: replace folder2 with fold Command format: mv [-n] SOURCE TARGET mv [-n] [SOURCE] DIRECTORY		
	For the below two commands, initially move2 contains test.txt		
	Both commands "mv move1 move2" and "mv -n move1 move2" resulted in folder move2 additionally contains folder move1.		
	There is no difference in the outcome which seemed to contradict the description of the command.		
25.	globbing - It failed on the second glob.	ls temp* ls temp*\temporar*	
	When used in conjunction with ls, the first command "ls tem*" works		

								T
	but the second command "ls tem*\temporar*" failed.							
	<pre>C:\repos\I> ls tem* temp:</pre>							
	temporary							
			\I> <i>ls</i> char <*:				em [*]	
26.	find - Unable to detect directory which already give permission to the authenticated users of the computer (modify, read & execute, list folder content, read, write)							find D:\ -name "test2.txt"
	m si	essage t	iis is not that relat should b	ted to th	ne cu		t	
			I> find No such					
27.	re	verse th	ort - The ne output he " " op	t that is				paste test1.txt sort -r
	C:\repos\I> paste test1.txt test src: main C:\repos\I> paste test1.txt sort test src: main						ort	
28.	Paste assumption did not tally with the example given in the assumption document.						th	paste A.txt - B.txt < stdin.txt paste stdin.txt paste A.txt - B.txt
	The output shows that the stdin is appended before A.txt and B.txt.							Then Sien
	A.txt stdin B.txt output				out	tput		
		1	Α	1	Α	1	1	
		2	В	3	В	2	3	
		3	С	5	С	3	5	
		4	D	7	D	4	7	

	However, the order does not tally, in both example, output of stdin is in middle instead C:\repos\I> paste A.txt - B.txt < stdin.txt 1		
29.	Unclear assumption in paste. "The paste command can also be used to merge N consecutive lines from a file into a single line. Here N can be specified by specifying number hyphens(-) after paste." When two hyphens are introduced, paste command determines "" as a file name instead. C:\repos\I> paste A.txt B.txt paste: No such file or director	paste A.txt B.txt	
30.	cut - Command did not throw the expected message when the range is overflowed. 1) When the range of number exceeds the range of the line length, it throws "cut: Out of range" 2) When the range of number have the first number larger than the second number, it throws "cut: Invalid range" However, both of the above throw "cut: For input string: "1000000000000000000000000000000000000	cut -c 1000000000000000000000000000000000000	