CSc 3320: Systems Programming

Spring 2021 Homework # 3: Total points 100

Submission instructions:

- 1. Create a Google doc for each homework assignment submission.
- 2. Start your responses from page 2 of the document and copy these instructions on page 1.
- 3. Fill in your name, campus ID and panther # in the fields provided. If this information is missing in your document TWO POINTS WILL BE DEDUCTED per submission.
- 4. Keep this page 1 intact on all your submissions. If this *submissions instructions* page is missing in your submission TWO POINTS WILL BE DEDUCTED per submission.
- 5. Each homework will typically have 2-3 PARTS, where each PART focuses on specific topic(s).
- 6. Start your responses to each PART on a new page.
- 7. If you are being asked to write code copy the code into a separate txt file and submit that as well.
- 8. If you are being asked to test code or run specific commands or scripts, provide the evidence of your outputs through a screenshot and copy the same into the document.
- 9. Upon completion, download a .PDF version of the document and submit the same.

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10 pts for the neatness factor of your presentation.

PART 1: 30pts

1. For each command tryout at least one example provided in **Chapter 3** of the Unix textbook. Feel free to use your own example. Show the screenshot for each command's output. Present your output in a tabular form with column 1 as index (1,2,3..), second column as the command, third as the usage, fourth as the screenshot of the output. You can just show a small snapshot for the output -- we do not need the entire screen's image.

Part II: 30pts

2. For each command tryout at least one example provided in **Chapter 4** of the Unix textbook. Feel free to use your own example. Show the screenshot for each command's output. Present your output in a tabular form with column 1 as index (1,2,3..), second column as the command, third as the usage, fourth as the screenshot of the output. You can just show a small snapshot for the output -- we do not need the entire screen's image.

Part III: 30pts

3. For each command tryout at least one example provided in **Chapter 5** of the Unix textbook. Feel free to use your own example. Show the screenshot for each command's output. Present your output in a tabular form with column 1 as index (1,2,3..), second column as the command, third as the usage, fourth as the screenshot of the output. You can just show a small snapshot for the output -- we do not need the entire screen's image.

Index	Command	Usage	Example
1	at	Allows you to schedule one-time commands or scripts	CapertileOggused.gov.edu@nrowboll -18 echo at done > /dev/pts/4 [aggrilleOggused.gov.edu@nrowboll -18 [
2	awk	A programmable text processing utility that scans the lines of its input and performs actions on every line that matches criterion	
3	biff	Enables and disables instant mail notifications	Unable to run/command not found
4	стр	Finds the first byte that differs between two files	
5	crypt	Creates a key-encoded version of a text file	Unable to run/command not found
6	diff	Displays the differences and similarities between two files	Ispantistignued.gov.edubreeball 18 diff Result addressBook.txt 1.00.13
7	dump	Can copy specific file system to a dumpFile; or allows you to specify the names of files to be dumped	Unable to run/command not found
8	egrep	Extended grep; matching regular expressions	[agentlic25ground.gov.edu2roomball =]5 egrep =c '*alexis 75' addressBook.trt] [agentlic25ground.gov.edu3roomball =]5 []
9	gzip	Replaces file with its compressed version	[Egentliz@guasd_guv.endprocedell -]E grip -v endreasBookTest.txt endreasBookTest.txt endreasBookTest.txt 16.8% - replaced with endreasBookTest.txt.gz (egentliz@guasd_guv.endprocedell -]E

10	Ln	Creates hardlinks or symbolic links to existing files	(spantizelypood gas, edelesseed) 2/8 male male 3/8 [spantizelypood gas, edelesseed) 1/8 male male 3/8 [spantizelypood gas, edelesseed) 1/8 male 3/8
11	mount	Allows you to "splice" a devices system into the root hierarchy	(sgntlis78graid, gav.end/stronkall]E.mount vyff.co./sys type yrsf: [vm.dexid.nodev.nesec.telation.seclabel] vyff.co./sys type yrsf: [vm.dexid.nodev.nesec.telation.seclabel] proceedings of the proceedin
12	od	Displays contents of a file in a variety of ways	[agantlizi@gaued.gau.edu@anombali =]\$ cat > odTest.txt 123465789 [capentlizi@gaued.gau.edu@anomball =]\$ cd =b odTest.txt edeceme 80. 86.2 86.3 86.4 86.9 86.6 867 978 87. 812 [december 80.5 86.2 86.3 86.4 86.9 86.6 867 978 87. 812 [december 80.5 86.2 86.3 86.4 86.9 86.6 867 978 87. 812
13	tar	Allows you to create and access special tar-format archive files	[agentile20gnued.gou.edu0rronHall tarfile] tar - a.c. a.c. a.c. a.c. a.c. a.c. a.c. a.
14	time	Can report execution time	(sperfile20pssed.gau.edu9nosball -)8 time raal me.dem uner dec.dem uner dec.dem uner dec.dem uner dec.dem (sperfile20pssed.gau.edu9nosball -)8 []
15	tr	Maps all the characters in a file from one character set to another	Togentilibitationed pair edular edular off at \$ = x -2 < addressBook.txt ALEXES GENTIAL DAMP CAMPS (15:222-383) FFOR 8, 223 BOOK (0.225-382-27) THESE 9, 312 37 MAIN, \$254-97-297 THESE 9, 312 37 MAIN, \$254-97-297 [Expertilizergound.gap.dedgenomball -) []
16	ul	Transforms a file that contains underlining characters so that it appears correctly	[sgortli2/geoust_gov_eduforostall -]\$ ul /dev/pts/4 edfest.tst west(1) west(2) west(3) 23346979 [sgertli2/geoust_gov_eduforostall -]\$
17	compress	Replaces files with compressed version	Unable to run
18	cpio	Allows you to create and access special cpio format files	Isparticalgound.gou.edu/uncetall -18 ls *.c cpio -ov > backup compared.c cpio -ov > backup compared.c cpio -ov > backup cpio -ov > b

20	crontab	Allows you to schedule a series of jobs to be executed on a periodic bases	Unable to run/cant install
21	fgrep	A faster version of grep that searches only for	[egentlis78guved.gav.edv8nrowhall -]B [grep =c *ryle* edfres8book.txt [egentlis78guved.gav.edv8nrowhall -]B []

		fixed strings	
22	find	Can locate a file; or perform specific actions on a set of files that satisfies specific conditions	Isperiladiguad gu. diplinadal - 18 find mine is -12 Good R - marray - 1 agentiladiguad gu. edu gentiladiguad gu. edu Good R - marray - 1 agentiladiguad gu. edu gentiladiguad gu. edu Good R - marray - 1 agentiladiguad gu. edu Good R - marray - 1 agentiladiguad gu. edu Good R - marray - 1 agentiladiguad gu. edu gentiladiguad gu. edu Good R - marray - 1 agentiladiguad gu. edu agentiladiguad gu. edu Good R - marray - 1 agentiladiguad gu. edu agentiladiguad gu. edu Good R - marray - 1 agentiladiguad gu. edu agentiladiguad gu. edu Good
23	grep	Allows you to search for a pattern in a list of files	Isparti120@pused_pus.ede@roceb31 -]E cst addressBook.txt All section 1
24	gunzip	Can uncompress file	Isgantile28gaued.gsu.edu8mackall = 8 gausip = v = .gz addressBoolFast.tst.gz: 14.60 = replaced with addressBookFast.tst isgantile28gaued.gsu.edu8mackall = 5
25	tty	Displays pathname of terminal	[EggentlieZügnusd.gau.edu@enoeball =15 tty /dev.pts/4 [EggentlieZügnusd.gau.edu@enoeball =15 []
26	sed	Edits an input stream according to a script that contains editing commands	(sportLis2)ground_gru_edu/mometall -y5 sed 's/'/ /' address@ook.txt > address@ook.txt address@ook.txt > address@ook.txt
27	sort	Sorts a file in ascending or descending order on the basis of sort fields	(spentiistippassi par. edubrosetall - 18 nort eddresshock.txt slexts gentlis. 2004 compt less, 111-222-2333 (1970 f. 12) born for f. 22-256-257 (1970 f. 12) born fr. 22-257 (1970
28	su	Creates a temporary shell	[spentile2[gased_gas_redeferowhell =] % su presentile2[gased_gas_redeferowhell =] % su presentile2[gased_gas_redeferowhell =] % soport [spentile2[gased_gas_redeferowhell =] % soport Connection to monthallers, such closed, slexisgentile2[gased_gas_redeferowhell =] % si single_gas_redeferowhell_gas_redeferowhell slexis_set_gas_redeferowhell_gas_redeferowhell slexis_set_gas_redeferowhell_gas_redeferowhell slexis_set_gas_redeferowhell_gas_redeferowhell slexis_set_gas_redeferowhell slexis_set_gas_redeferowhel
29	umount	Unmounts previously mounted files	Unable to run
30	uncompress	Reverses effects of compress	Unable to run
31	uniq	Displays a file with all of its identical adjacent lines replaced by a single occurrence of the repeated line	[Feynntlic30gused.guv.ebd0woods] - 15 wnig -4 wddrwsbook.txt
32	whoami	Displays the name of the owner of a shell	[spent1122]spund_gav.eduPromehl1 -3% whomi spentlin25pund_gav.edu [spentlin25pund_gav.edu [spentlin25pund_gav.edu] -15

2.

Index	Command	usage	example
1	chsh	Change default login in shell	Use 1 mount of the Medical Section 1 mount of the Medical Sect
2	echo	Displays all of its arguments to a standard output	ast login: Fri Mer 5 364/3289 on thysde0 slecisgentileAdexiss-MacBook-Pro thysde0 fain/ssh viexisgentileAdexiss-MacBook-Pro - % []
3	kill	Terminates a process before it is completed	Maleningsmills — _rsh — 80x24 Are Ingin _ fire _ 5 fire _ 5 50x26 m = rpages Aleri spenitional restauring without per _ v _ vill = 1 MP ard out file The Total to your yet _ vill = 1 MP ard out file The Total to your yet _ vill = 1 A conf out file The Total to your yet _ vill = Roof vilcol INVO USEL USE2 AlexisgenitizedLesise - Accelook-5re - % []
4	nohup	Executes command and makes it immune to the hangup and terminate signals	alexisentileAlexis-MacBook-Pro - % nohup sleep 1000 appending output to nohup out
5	ps	Generates listing of process status information	Billioningentine — rath — 80-25 List logic fri Mer 5 20-229 on trys88 Anni List List List List List List List Lis
6	sleep	Sleeps for specified number of seconds then terminates	alexispentileOlicriss-Hechoek-Pro - % sleep ungar sleep second distiputileOlicriss-Hechoek-Pro - % []

8	eval	Executes output of command as a regular shell command	HOP INT GRET ILL TROP AREN ENT FRE ELLL RUS SIGN FOR PIPE ALBN HERN UND STOP TO P COOT CHILD THIN THO IN DOPUN FRE "A MECH AND SIGN USES LUGGES AND SIGN AND SIGN USES LUGGES AND
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9	exec	Causes shell image to replace with command in the processes memory	ElexispentileAlixis=Meobool=Pro - N exec date fil Ner & Id-Align IST 2021 [Process completed]]
14	tee	Copies standard input to specified files and to its standard output	alexispentLinkLicius-Muschouk-Pro - N who tee who.copture sort lexispentLic convol r for 21 1046
15	umask	Sets value to the specified octal number or displays current value if argument is augmented	deletjantlethleris-Nedbook-Pro - N umask 622 deletjantlethleris-Nedbook-Pro - N []

3.

index	command	usage	example
1	expr	Evaluates expressions and sends results to standard output	electoproticeblacis-MecBook-Pro - N echo 'expr length 'est'
2	test	Returns 0 exit code if expression evaluates true	Unable to run