**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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| Index | Command | Usuage | Example |
| 1 | at | To schedule one-time commands or scripts. |  |
| 2 | Awk | Scans one or more files and performs an action on all of the lines that match a specific condition |  |
| 3 | Biff | Enable and disable instant mail notification |  |
| 4 | Cmp | Finds the first byte that differs between two files |  |
| 5 | Compress | Encodes a file into a more compact format |
| 6 | Cpio | Allows you to save directory structures to a single backup volume |  |
| 7 | Cron | List of commands to execute the scheduled tasks at a specific time |  |
| 8 | Crontab | Create a scheduling table that describes a series of jobs to be executed on a periodic basis |  |
| 9 | Crypt | Creates a key-encoded version of a text file |  |
| 10 | Diff | Displays all the differences and similarities between two files |  |
| 11 | Dump | Allows you to save a file system to multiple backup volumes |  |
| 12 | Egrep | Supports matching with regular expressions |  |
| 13 | Fgrep | A fast version of grep that searches only for fixed strings |  |
| 14 | Find | Locates a named file, and also can perform actions on a set files thatsatisfy specific conditions |  |
| 15 | Grep | Allows you to search for a pattern in a list of files |  |
| 16 | Gunzip | Uncompresses a file created by either gzip or compress |  |
| 17 | Gzip | Replaces a file with its compressed version |  |
| 18 | Ln | To create a hard link between two regular files |  |
| 19 | Mount | Split up a device’s file system into the root hierarchy |  |
| 20 | Od | Displays the contents of .filename in a variety of forms |  |
| 21 | Perl | Has a large number of command-line options that helps to make programs more concise |  |
| 22 | Sed | Edits an input stream according to a script that contains editing commands |  |
| 23 | Sort | Sorts a file by arranging it in a specific order |  |
| 24 | Su | Used to switch to another user |  |
| 25 | Tar | Allows you to save directory structures to a single backup volume |  |
| 26 | Time | Reports the execution time of any unix command specified by command-line |  |
| 27 | Tr | Maps the characters in a file from one character set to another |  |
| 28 | Ul | Transforms underline characters in its input so that they will be displayed correctly on the specified terminal |  |
| 29 | Unmount | Unmounts a previously mounted file system |  |
| 30 | Uncompress | Reverses the effect of compress, recreates the original from the compressed version |  |
| 31 | Uniq | Displays a file with all of its identical adjacent repeated lines collapsed to a single occurrence |  |
| 32 | whoami | Writes the user name of the owner |  |

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| index | command | usage | example |
| 1 chsh | Change your default login shell |  |  |
| 2 echo | Displays all of its arguments to standard output |  |  |
| 3 kill | Terminate a process on the basis of its ID number |  |  |
| 4 nohup | Executes command and makes it immune to the hangup and terminate |  |  |
| 5 ps | Shows info concerning a selection of running processes |  |  |
| 6 sleep | Sleeps for the specified number of seconds and then terminates |  |  |

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| index | command | usage | example |
| 1 | Expr | Evaluates expression and sends the result to standard output |  |
| 2 | test | Checks file types and compares values |  |