12. Piping

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commands table

commands	application

01. What actually matters in this section?

• useful: piping

• important: tee command

nice to have: tr command

02. Intro to Piping

- pipe character is used to separate two commands. The output of the first command will be passed to the standard input of the second command.
- example: command1 | command2

date | rev will get the date and then reverse it

ls /usr/bin -1 | wc -1 will get the list items of the passed directory and then pass to wc -1 which will print the line counting.

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04. Comparing Redirection & Pinging

- Though both the > character and the | character are used to redirect output, they do it in very different ways
- connects a command to some file
- connects a command to another command
- we can use both together
 - example: ls /usr/bin -1 | wc -l > count.txt will list the items and on the directory on a separate line and then pipe with word count to calculate a number of lines then redirects the output to the file name we passed.

05. tr command

- tr translate, squeeze, and/or delete characters from standard input writing to standard input
- example: replace each small case s with upper case s
 command: cat msg | tr s s will get the content from msg file and then translate s to s

06. Working with multiple pipes

• example: cat file | head -7 | tail -5 will feed a file to head, which cuts it down to the first 7 lines of the file and passes it to tail, which then outputs the last 5 lines of the chunk coming to it

07. Working with the tee command

 The tee command reads standard input and copies it both to standard output and AND to a file. This allows us to capture

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information part of the way through a pipeline, without interrupting the flow.

example: command1 | tee file1.txt | command2 will execute the command1, redirect the output to file1.txt, and also passes the same as an input to command2

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