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| |  | | --- | | Lab2–Linux-CommandLine Practice  CPSC 2311- Fall 2020 | |  |

# Introduction

The goal of this lab is to familiarize yourself with some new and some old Linux command line environment, including various tools that will be useful as a programmer.

This lab may require you to perform a couple google searches in order to complete some of the task.

**Due:**

Friday, September 4, 2020, midnight. Why Friday, because this lab should not take that much time to complete.

# Lab Instructions

Part 1

Step 1

If you do not already have a lab folder this this semester, open a terminal and create a lab folder called Labs2311 using mkdir. Now navigate to the lab folder. Create a folder for Lab2 and move into the folder. Copy the lab files from canvas to this folder. Each time you run the terminal, you are basically running a program called a shell. In many Linux distributions, including the lab machines, the default shell is called bash (short for **B**ourne-**A**gain **Sh**ell)

For step 1 complete each of the task listed below.

Task A.

Bash can be customized by editing it’s configuration file. The name of the configuration file is **.bashrc (note the period at the beginning),** which holds the bash run commands. The .bashrc file is located in your home directory. Below, write a command to edit this file without leaving the current directory. (Hint: Bash uses the tilde character **~** as a shortcut for your home directory).

**Type the working command here: vi ~/.bashrc**

Now run the command to open the .bashrc file.

Task B.

Bash allows for the use of aliases. Aliases are shortcuts to commands and are useful for shortening long commands that you find yourself using often. At the bottom of the **.bashrc** you opened, add an alias **maketar** that contains the flags to create a tar.gz file. There most likely are several alias shortcuts already in this file, use them as an example.

Now create an alias **untar** with the appropriate flags to untar a tar.gz file.

**Place a screen shot of your new maketar and untar aliases here.**

**![A screenshot of a computer screen

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIE1vZHkAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM1NAAAkpIAAgAAAAM1NAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FABRmiimIM0maKKQCZozRRQISkzRRQh2DNGaKKYNCZpCaKKCRM0ZoooEGaM0UUxiZozRRSASiiimAlFFFAgpuaKKYgooooAKKKKQBSUUUDFNNJoopiEooooGwzRmiikIKU0UUAJmgGiimAuaQmiigBN1FFFID/2Q==)**

Task C

Save the file and quit. Back in the shell, you will need to run the command **source** on the file in order for bash to update with the new changes. Once done, in the terminal you can run the command **alias** to see a list of aliases that bash currently has defined. Put the results of running the **alias** command below.

To test your maketar command, if you are not already in your Lab2 folder, move into it. Use the command **touch** to create a file in your Lab2 folder and use your maketar alias to tar the content in the Lab2 folder. Name your tar.gz file lab2\_test.tar.gz.

This should create a lab2\_test.tar.gz file that contains the content of your lab2 folder (even if is only 1 file).

**Place a screenshot of this process here.**

**Now test the untar alias by untaring your lab2\_test.tar.gz file. – create a screen shot of the files untarred and place it in this document.**

**![A screenshot of a computer screen

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIE1vZHkAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2MQAAkpIAAgAAAAM2MQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Step 2

Many programs that can be installed on Linux also come installed with manuals. The program **man** will open the manual page for a specified program. Use **man** to learn more about commands you aren’t familiar with.

Task A

Give a brief description of what each of these commands do.

rm- remove file and directories

cp-copy files and directories

mv-move(rename) files

cat-concatenate files and print on the standard output

chmod-change file mode bits

diff-compare files line by line

watch-execute a program periodically, showing output full screen

wc-print newline, word, and byte counts for each file

Task B

What do each of the flags mean in the command **ls -lha**

l- long format, displaying Unix file types, permissions, number of hard links, owner, group, size, last-modified date and filename

h- print sizes in human readable format.

1. lists all files in the given directory, including those whose names start with "." (which are hidden files in Unix)

Step 3

The pipe operator **|** can be used to connect one program’s output to another program’s input. Programs can be piped together indefinitely. For example, **ls | sort -r** will put the output of **ls** into **sort** which will then sort the listing in reverse order.

Task A

**grep** is a really useful tool that can search files for a specific string. Write a command that will search the file provided, **data\_col,** for all occurrences of the letter “B”. Use the man page for grep if you need help.

**Type the working command here: grep “B” data\_col**

**Post a screen shot of the working command in this document.**

**![A screenshot of a computer screen

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIE1vZHkAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwMQAAkpIAAgAAAAMwMQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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pKBajs0hNJRQAtFJQTQAtFJQTQAtJmjNJmgYuaXNNzRQApNJmiigBaKTNBagAozSZozQIUmkzRRQAZozRRSAWg0maCaYwzRmiigQZozRRQAZozRRQAtBpM0E0DDNGaKQ0ALmjNJmloAM0ZpKM0AOFB6Um6gtQAZozSZopALmjNGaM0AGaM0lFMQ6jNJmjNAC0UlFAC5ozSUZoAXNGaSloAKKKKAClBpuaM0APzSZpKM0ALmlzTc0ZoAdmlzTQaXNAC5ozSZooGLmjNFFAhc0ZpM0ZoAWikzRmgYuaM0maM0ALmikzRQBieKudKUf8ATUfyNZl1o1ybaw8q5Ug2ysMx9NxLY6++K0fFB/4lqf8AXUfyNX7ZfMtLD0Fqg/SvKq041MQ1LsfT4KcoYVOPdnPReGr+T/l4j/79H/4qrSeDr9xxdxj/ALYn/wCKrsbSHpWxbW2ccVLw9JdDp+sVO550PA+on/l8j/78n/4qkbwRqA63kf8A35P/AMVXqyWWV6VFNabe1R7Cl2F9ZqdzxzxHpkmmX0Ec0wlZ7eNjhdoHGMYyfTP41kZrq/iINviSJf7tsn9a5SvPqRUZtI9KnJygmy/ppxa6kf8Ap1H/AKGK7keAdOtfh7B4i1LVplkuhG8K21qZY0DK52ORyGyoyeg98jHC6ecWupf9eo/9DFdloHxE0/w74UurGy0eQ3swRHWS7Z4JcJIrSFCMDlgdueSQf4eYLOKElHmH1ra0bwN4i1/TV1DSrOOa2dioZrqJDkHB4ZgetZGpafdaRqU1hfosdxAdsiBw2DjPUEg9e1AE+ltnUD/1wl/9ANZKcov0FaOkt/xMG/64S/8AoBrOT7q/QUAfR3wM8PjQvCp1ptPMl7qBYLOs/WHIwpUtgHcG7Zr1P+07r/nxf/v4n+NcF8Krnd8MtIGfuo4/8fauw+0e9AGP4m8H6F4wvobvxD4fku54Y/KjYXjR4XJOMK4HUmsX/hUXgf8A6FOT/wAGMv8A8crqLnVrezKCd8FzgADNTRX0c6kxNkA4zgigDkf+FQ+B/wDoU5P/AAYy/wDxyvAvH3h9fDfjXULGGAW9uJN8EXmbykbcqCckk496+rvP96+aPjJJ5vxNvT/djiH/AI4KAOf8PQqkkl7IAfK4jB/vHv8AhXZ6LDdXmySeVxDG5ZecEn1+lc14aUtYs0ao7JLyjd+K6u01a2En2dW2OvG0jFe5g6UVTUn1PCx05Sm4roddFdBI8deOfeuR1GSS+klWCeKJVJXyd2CRV66uZPsMwh/1mw7ecc1n+HPCV94ostRaw/4+bNBIsTZBkBPIHvW+ImoLXY4MLh3OT5dzBmTzI5bC5+6/Tn7rdiK411KSMh6qcGuzt4mW/WC4RoZYiRIjL2HrXJ6jhtSuCvQyHH515eLgklNdT3cJJ6xZreDNOi1PxJaw3ABiaRQwPcdf6V9NR6rHa24hiwiIoUAdABXyvoeoHTNTiuAxUKwyR2969HuPFGqTWoaGVSrDhlUHP0rgO89E1vxNBZW7PJIN2PlXPU9q8O8ZxJJOt0AA8p3Nj1zWgGvbu533MkkrZ4z2rF8S3ZlCRJ8yqeXHIz9aAOeozRRQAtfQnwP0238P+GW1eSx339+WCzrOP9TkYUqWwDuDds18919CfDq5z8P9MGfuoy/+PmtaUFN2Mqs+RXPUv+EkYf8ALo3/AH8T/Gua8TaB4a8Y3sN34i0J7ueGPyo3F40e1ck4wrgdSah+0e9Hn+9dH1dHN9YZlf8ACsvAH/Qryf8Agyk/+O0f8Ky8Af8AQryf+DKT/wCOVq+f70Cf3o+roPrDPnrxZosegfEOaytoRb2wuke3iEm/ZGWBUE5OTj3roozkVm/EaTzfic/s8A/9Bq/F90V24BW5l5njZu7uD8ibNGabS5r0zwhc0UmaM0ALRmkzRmgQuaTNGaM0AGaM0UlAC5ozSZpM0AOzSZpM0maAHZpM0maM0AOzSZpuaM0ALmikzRQAtGaQUUALmjNFJQAuaM0maM0ALmjNJRQAuaTNJmigBc0ZpKKAFopM0ZoAKKKM0AGaM0UUAGaM0UUAGaKM0lAC5ozSUUALmjNJmjNAC5ozSUUALmjNJmjNAC5ozTc0ZoGLmikpaAFpM0ZooAM0ZpKKAFzRmkzRmkAuaKTNGaAFopM0ZpjDdRupKWmSGaAaKKBi7qXdTaM0CHZozTc0ZoAdmjNNoxQMdmjNJijFAC5ozSYpMUAOzS5FMxS0AOzRmm5ozQIdmjNNyKOKBjs0uaZmigRJmjNMzRmgB2aKTNGaAF3Y60u6m5FJxQA7NGabijFAx2aXPFMooAxfE5/4lq/9dR/I1o6ZIDZWY7iBRWb4mH/EtX/rqP5GpdKuwtlGUkAZISMg8ggGvNl/vEvQ+kwmuEj6s660PA71t2jAYzXlsWt3IAzqc49vtLf41bj8QXI/5ik4/wC3pv8AGsXV8jrdHzPX4ZowvIqvdOpUkV5eviS6H/MWn/8AApv8a1dB115prj7TqLyoIuBLOWGdw9TUxldmbo21uc38Q33eKOO0CD9K5U1veMrqO78Qu8ThwEVSQc9BWCa4K38RnqUf4aLdif8ARNS/69R/6GKpBqu6eA63kHmRxvLb7V8xgoJ3A9TTP7Huenn2f/gSn+NZGpUIRjkjJoGB04q3/Y91/wA97P8A8CU/xo/se6/572f/AIEp/jQBJo7f8TFv+uEn/oBqkv3R9BWlY2T2Nw9xc3FqI1hcfJOrEkqQOBWav3F+goA+jfhPcf8AFubFc/deQf8Aj5P9a7IznadhGe2a8u+GGsW9t4IiiluYY2WZ/leQKe3Y11/9v2f/AD92/wD3+X/GgCC6FxPeT7z5jxgsxB6Aela2hzzC1O5wYs4UdxWYdW0wuz+ba73GHPnj5h3HWli1uwhXbDcWyL12iYf1NAHTefXzf8UZfO+I+qH0ZB+SCvbf+Egs+95bj/tsv+NeB+Obhbvxtqc0bq6tLwynIPHrQBX8P332a4aNjgSdPrVu6Zorstu++dynNc3kryCQR0q9HqHnvH9pJXYMZA616GHxCUPZy+Rx1qF5c6O5027k+woZnLMecnrivSPhRdD+0dSYH/lig/8AHq8XXVYyMiVcf71dz8PfFen6JY6xqF/MAkca7VB5c5PArtxdWLoOKfY5cNRca3Mz0Hx14Og1xJb/AExEh1Lac9hL9fevmjULS5sr+a3vYminjch0YYINe76l4mv/ABZ8Njq/h67msb2AlpI4HI6dQfwwa8M1LVb/AFe68/VLl7mYcF5OWP1PevEc5NKLeiPUUUm2ilirlnq17YDbazugPPB4/KqyAMcGp0gQ9akonudd1K7jMc105Q9VHAP5UWN6ikxXS74W4ZT/ADoFrF60xreNemKAJtW0WSwjW6gPnWUvKSjt7H0rLzxXV+GtchsJGstUQT6fOMSIRnHuKwdXjs49SlXTfM+zk5QSdQPSgClXt/w5uMeBrNc/deQf+PE/1rxA16r4C1KKDwpGkk0SFZX+VpAD27E114W3tNexyYu/s9O56H9o96PtHvWB/bNt3uIP+/q/40f2zbf8/EP/AH9X/GvTtE8nml2N/wC0e9H2isD+2bY9LqD/AL/L/jR/bNvx/pEP/f1f8aLR7hzSPMfGsnm/EmdvSeEf+g1tRHiuZ8QzrceO5pUYMDdpgqcg/MveulSpwW8/UwzX/l36EuaTdSZpK9I8MdmjNNxRQIdmjNJmjNAC0ZpM0maAH5pM03NGaAHZpM03NGaAHZozTaM0DHUmaTNFAhc0ZptGKBjs0ZpAKKAFzRmkpKAHZozTcUcUAOzRmm5ozQIdmkJNJmigAzRmjNGaBhuozSUUCFzRmkzRmgBc0ZpM0ZoAXNGaTNGaAFzRmkzRmgAzS5pM0ZoAXNGaTNGaAFzRmkzSZoGOzRmm0UAOzSZpKM0ALmikooGOzRmkozSELmjNNzRmgBSaTNGaM0WAM0ZozRmiwwzRmijNABS0maKACloopkhRRRQAUUUUAFGKKKADpRmiimAoooopAFFFFABRRRQAUUUUAGKKKKBhS4oooAMUlFFAgzS0UUDDFFFFAhaKKKACiiigZi+J/wDkFj/rqP5GuT9qKK8DHfxj6/Kf92XqxNi+lHlr6UUVwHqh5a+lCjbnHGfSiigBaWiigBpAPUZ+tGxf7q/lRRQAbF/ur+VG1f7q/lRRQAbV/uj8qWiigA6UZzRRQAGiiigBc4pKKKACjGaKKADbTt7CMxgnYTkrngn1oooA1tG8VaroNjc2mnXHlw3Iw6kZ/EelZBJZiSck0UUAJThIw70UUAL5z+tHmMe9FFADSx9aTPNFFAC4pKKKACjFFFArBSYoooAsWXOoW3/XeP8A9CFd6o4oor2su+GR81nPxw9B1JRRXqHgBRRRQAUYoooASjNFFAxaMUUUCEoNFFAxKXFFFABRRRQIKKKKACiiigAzSZoooAM0UUUwCiiikAUUUUAFFFFACUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUGiigYlFFFAwFLRRQAhooopAFFFFABQTRRQAmaKKKADNGaKKADNGaKKAFpM0UUAGaKKKAP/2Q==)**

Task B

We want an easy way to count how many occurrences there are. Since **grep** puts each occurrence on a new line, we only have to count how many new lines are in the output. Again, use the man page for grep. Write a command that takes the output from Step 3, Task A and counts the lines.

**Type your working command here: grep -c ^ data\_col**

Task C

**awk** is another useful tool. It does many things, but has a particular use that is commonly helpful: it can print columns from its input. Write a command that will print out only the values in the second column of data\_col. You may find this link on printing fields with awk useful:

<https://www.gnu.org/software/gawk/manual/gawk.html#Print-Examples>

awk ‘{print $2}’ data\_col

Task D

**sed** is a stream editor program that can be used to replace strings in text using regular expressions. However, the replacement we want to perform is simple enough that regular expressions are not needed. The format to describe what text should be replaced looks like this:

**sed “s/[original]/[replacement]/g”**, where [original] is the original text and [replacement] is what to replace it with.

With that in mind, write a command that takes the output from Step 3, Task A, and replaces all instances of the letter B with the letter Z, and saves it to a file called **updated.txt**.

**sed “s/[B]/[Z]/g” > updated.txt**

Step 4

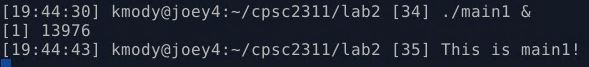
Compile main1.c producing an executable called main1.

Compile main2.c producing an executable called main2.

Each of the following commands will run the specified program with subtle differences. Enter each command and describe what happens.

./main1 – **This is main1!**

./main1 &



./main1 && ./main2

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEtldmluIE1vZHkAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM1MQAAkpIAAgAAAAM1MQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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HDYlWAy2BwSPmJJAxj3rjm0+8FkLxrO4+zdpjE2z0+9jFPttN1G9trieytbia1gUtO8aEqgxnLEcDgE0rDOsfT76f4t3n9k207pFqgM3kISETzQTux0HXr6U7TNOvtP+L9ob60mtxPqMjxGWMrvXceRnqK4X6VJDBLdXEdvbRtLLKwRI0GS5PQAUWEdGLy51D4f6nJezPOy6nA4MjZwzJLk89M4rUk8Maz4b8OzfZdMuZr29tybq6WMmO2gIyYwe7ED5j2HA6k1wzKUYqwIK8MD2PpSZPXv60WAu6fpF3qkd49oqsLO3a4lLNjCAjJ9+tUaOn19aOe9MQtFSS200CRPNE8aTJviZlwHXJGR6jIIz7VHmgAooqWC3munZbaJ5WVGchFzhVGSfoAM0ARUUZozQAUUZozQMWkqSKGW4lWK3ieWRuiRruJ/AUxgVYhhgjgg9qAEooozQIKKfHFJM+yKN3bBbCrk4AyTgegpmaACijNHQ80DFpKXqKSgAoq1Bpt9dQNPa2VxPCn3pI4mZV+pAplpY3d/IY7G1muXHVYYy5H4CgCCinyQywzmGaJ45VO1o2UhgfTFOntri1ZVuYJYSy7lEiFcj1Ge1AiKipmtLlLZbh7eVYGO1ZShCk+x6VEOTxyfSgYUlaFnomqajPLBZafcTyw/wCtRIyWT6jqKz80AFFGaluLea0nMN1E8MoAJR1wQCAQce4IP40CIqKtQabfXVu89rZXE0KZ3SRxMyr9SBVXPpzQMKKM1avNMvtOjhe/s57ZZ13RGWMqJBxyM9eo/OgCtSVIkMsscjxRSOkQBkdVJCD3PapLaxvLxZGtLSecRjMhijLbB6nHSgCvRU9nY3Wo3It7C3luZmBIjiQsxx14FRzQyW1xJBcI0csbFHRhgqwOCCPXNADKSpIY/OnjizjewXOOmTWkNB45uOf9z/69b08PUqq8FcynWhT+JmUKKfKnlSvGTnYxXPrzTKxas7M0TvqLSUuaSkMKKKKBBRRRQAUUUUDFpKXNJQAUUUUCCiiigAooooGLSUuaSgAooooEFFFFAHQakf8AigdCHf7Xd/yiq14Jv7tX1KwF1MLU6bdyGAOQhbyiMlemeBzWfPqFjceDbOweSdL6znlkRREDHIJNnVt2RgKf4Tmk0LxI+gRyiLTLC5klV0aW5WQtsZdrJ8rgYI9s89aT2GXPC04bR9asYL2Kxv7qOLyZpZRCGVXy6bzgAn5TjIztqfxtEBYeH5ZLlLu6ayKTTxtuD7ZGUc/xY+7nvt9KxbfVraLUZ7mbR7GaOYYFswkEcfT7uG3Dp6nqaj1fVp9Zu0muEiiWOMRRQwrtSJB0VR6ck+vJo6gJqI055rYaOlyqmBBMJ8EmX+Lbjt6V6DbaBqumeHNZ0SDS7s4sQ0sogYi5uDIhIU4+YKvAx6Me9ee6pqb6pLbvJb28HkW6W4ECbdwXozc8tzyakstdvbG1vYI3Drew+TIZCxKjcGyOeD8tAHVQSWGneBdD+1X99Zx3ss8kgsAAzOH27nJIyAAML7npXOX+nxaR4ymstbkmuYbe623MkR+eRc8kZPUjnk07TvEb2Wnx2dzp9nqMEEpmgW6Vv3TnGcFWGQcDIORxVQazct4gGsXKxXNz5/2hlmXKO2c4I9PaiwE+maQuveJhp+meaIJZHMbMu50iGSSQOpCjoOp4rqfF1tqEngWxkl0q7srW0vZUjilhZfIh2xqm7Pqc5J6kmuHuLt7i+mugFheWRpNsQ2qu4kkAdhzVmbWrqfRINLlKmCGZ5lbJ3EsFBBOeny8cdzQB6DO5OsXsYvWbVDpBhOi/N5KEQgFQ/Q4Ub9uOveuP8HEfbNU/7BF5/wCiWp7+NLp2e5FjZLqUkJgbUAjeaVK7ScbtoYrxuC5qt4e1Cw01NRlu5J/NmspraGKOEMpMkZXLMWGMEjoDRbQDEra8G8+N9Fxyft0X/oQrF6detWtMv5dK1S1v7dUaW2lWVBICVJU55xjimI3/ABLo1towt02i7nvZWlN5HJmJQHIMSYOCwP3ienGPWuhfw94cfVGso9KdP+JrPpvmfaXJACbg+M43A8Y6Y6gnmuIXXrk6dcWMkcMsE04uFDgkwydyhzxkcHOeMVeHjLUFv/tnk2vmf2g+oY2tjzGGCPvfdx26+9KzGTW9vo+leH9MvdT006jLqTyk5naMQxo235QpGWJycnjgcVal8PWGi3viOS9hbUIdJljhhhaQoJDIx2lyuDwoPTGTisnTvEr2WnxWdzp1nqMdtI0tt9qVyYWOMgbWGVJAODkUlr4lu4r6/nvIob5NR5uoZwdsh3bgflIIIPTBGKAN7VhpM+peExdQPDpk1gFkjMhJiDSyAnd1wpOfoOaoL4YS0s5LfU1K31xqg0+3O4gIFP7x8dx8ygfU1n6hq03iW8sY7v7FYJbwi3iKKyxxoCWGfvHjOM/TqcmrnizxE2o6zZmyujMmmwRxRXAXb5kigFpMHoS3r2AoA6awuLddUsLO4mkh0/ULxrW306GBWhMSv5eZc8lmOfm6g856CuZ8Mw2c1xqNlNbMZVtbmRLhZnRl2xMQuFOCMjmrg8URIst3pupS6dO0jXItHsUnWOY8kxSE5QMQMjA49cVR8Py2unQ3up3moW/myWlxDHaDcZWd0Kg8LtA5Jznt0pDItAsrFtK1XVdStzdpYrEqW+8ortIxAJI5wACcDGeOa1YPDNhq+s6A1ojWVnq0EkssPm58oxF94Vm7EJwT0zzXPaRrMukfaIjbw3dtdII57a4B2OAcg/KQQQRkEGp5/FF8+r2V/arDZfYFCWsMCny41BJxgk5zk5znOTT1Eamt6XpY0Ke5hhsLG7hmURQ22qLdGdDnOQGJDDg5GAQTxUjeH9NXU31Iwn+xf7N+3pH5h+8RsEW7rnzePXArD1HV7e9tzFBo1hYs7h3lt1k3E+g3OQo9gBWnqWqpaeB7TQLe/jvHa4a4naIMFjXA2xZIBPO5j2Bx1oGbngHR77T7jSdTt7G4mfULpVE6Qlkt4FbDsW6KWIx7KD/erj57eOy8UtDrlvcRQpcZniC7ZNhOeAcYODxUOl6tc6Rqdte2zBntpBIkbklCQc4IBHFNttSkt9Xj1Fo4ppo5hNslUsjEHOCM8ii2oh0dpb32ryw2txHaWxdmjlvG27U7bsA5OMcAHmrF7oDWNm9yNT0y5iXGzyLkM7knGAhwwx15ArPu7g3d5NcskcbTSNIUjGFXJzgDsOai49TimB0Nn/xJvB1xet8t5qxNrbkdVhXBlb8TtX/vqi1tdO0zwvb6rqNj/aM15cSRRQtKyRxqgXLHbgkksMc44qhruqpql5F9miaGztoEt7aJjkqqjkn3LEsfc1Jp2vNZ6a+n3Vja6jZmTzVhuQ/7t8YJVkZSMgAEZwcUgL2i2ukXFlr2p3Wnu8VlHHLb24nYYLSBQpYckc/XHfPNOu9N0h7zw/esG0/TtT/4+Yw5fydshR9pPOMDIznGe9LomvW1np3iCSa3tRJdxxLFZsjeW480FlHORhcnOc+9Zt9r8l7fWk0tnarBZoI4LIKxhVASSCCcnJJyc55oAv8AibTBZ2sc9tpFrbWrSlI7u0vTcRyjH3SdxAbv278U/WINH0AR6ZJphvLs2qSS3b3DoVeRA4CKPlwNw6g55rN1DXTeaaun2lha6faeaJ3jg3kySYIBJdmPAJAAx1NTSeJWuLGKG/0uxvLiGEQxXcqv5ioBgA4YKxA4BINGoFjwrNqkt7A66ncWmmaawmnk80hIU3ZIA6FmPAHf86qvqqXnia8uI7u40myvp3kbyASVUklQVBGecDr/AIVLZeKntNDj0mTSdNu7ZJDKfPSTc7Hu21wDgcDjgVVtdZgt7q5kl0bT7iK4YMIZFkAhxnhCGDAc9yc4FAGv4yuZotS0e8s7l5Y47GL7NqG4iSfax+c91YHjHJG0c1H4xuJ7u18Oz3M0k8smlqzSSMWZj5snJJrM1HX59TvrWae3tlgtFVIbNFIiVAc7cZzyc5OcnPWrGs+KDrNjBayaTp1sLdBHDJbpIGRASdo3ORjJPagC+1/d3vwwuFvLqacQajBHCJHLCNRE/AB6D2qj4Vhjiu59Zu0DWulR+eQ3R5c4iT3y2Dj0U06HxWYdCOlf2LpbwNtZ2ZJd7OqlQ5PmY3YJ7Y56VSl1VP8AhGrfSrSNox57XF05I/etjCD6KM/ixoA0vBU8t18RtLnuHMkst5vdm6ljkk1j6RaNfaxa20Vo140jgCBX2eZ3I3dh79hUVhfTaZqEF7aPsnt5BJGxGcEHP41fXxDJDrkOqWFhZWcsQIMUKN5cmchtwZj1DEEDAx0ApgbGuaNpw8MS6jaQ2lvPb3SQulldtOjKysckknDAr2OOa19YtdJ1bxhJo8tgy3k1jG633nNlZFtVdRt+7twoB78k5rlL3xK9xo0mlW2m2VjZyTLOVgVy29QRnczEnr0PoMY5zbuPGt3ceZN/Z1hFfPb/AGUXkaOJEj2bCBliMkZG7GeT7VOoDfCk2qS30DrqVxaabprCaeTzSEiTdkgDoWY8Ad/zrH1i9j1HXL29t4vIiuJ3lSL+4CxIFadl4qaz0KPSZdJ027t0kMp89JNzse7bXGcDgegrFuZluLqSZIY4FdiRFFnansMknH1JquoEVdF42G/xWVUEk2tqAB/1wjrnc81t+KNQsdU1CK9sJJy7wRxzRyxBRGUjVOGDHcDtJ6CjqB2lt4f1XS/Dms6LBpl4f9BDSyiBsXFwZEJCnHzBVyBj0Y96x4Zm0/wZoT2upNp7k3N4qorH7VOsqqqHb0+UdTwPxrmbHXbyxtb2CN963sPkyFyxKjcGyOeD8uPpmrWl+JptPsY7Saxs7+OCUz2/2lWPkucZI2kZBwMg5GR0qbMC74kt4bX4nXUVsAsQ1AEADGMsCQPTqaz/ABZ/yOmt/wDYQn/9GNUVpex3PiFb/WbmZd03nyyRRCRmfO7oWUcn34qPXbyPUfEGo30AYRXN1LMgcYYBnJGffmqArWf/AB/2/wD10X+ddRXLWpC3sLMcBZFJJ7DNdGbq37XEP/fwV7WXSjGErvqeXjYtyVkc9d/8fk//AF0P86hqS6IN1MQQQXOMH3qKvIqfGz0Y/ChaKTFFQULRSUUALRSUUALRSUUALRSUYoAWikxRigBaKSigBaKSkoAdRTaXFAC0UUlAC0UlFAH2YfvUp6UUVkWIKWiikNgaKKKYhBS0UUDENLRRQITvS0UUAHc0vaiigBKU0UUAApBRRQAd6P4qKKAFP3qQ/eFFFACn7xpKKKAClPWiihAIKDRRQAtNHWiikApoFFFNAHehvvGiigAFFFFMAooooASloooAKB0ooo6gIaUUUUAB6UooooAQ0UUUCENKe9FFAxBRRRQAtKaKKAAd6QdqKKQAeppaKKYBRRRSYBSGiigAooopAApaKKYBSUUUCCiiikMKKKKYBRRRQACiiigApDRRQAUUUUDP/9k=)

Step 5

The exclamation mark (!) can be used to re-run a previous command. If the last command that I executed was ./main1, which of the following would re-run this command. Write TRUE if it would re-run, and False if it would not.(T/F)

!./m - T

!. - F

!s - F

!! - F

!m - F

!./main - T

## Submission Instructions

**Using your newly created maketar tar all files for this lab and submit them through handin.** ([http://handin.cs.clemson.edu)](http://handin.cs.clemson.edu)/)

Be sure to check your tarred files after submission to handin.