# find Assignment

**Mandatory:**

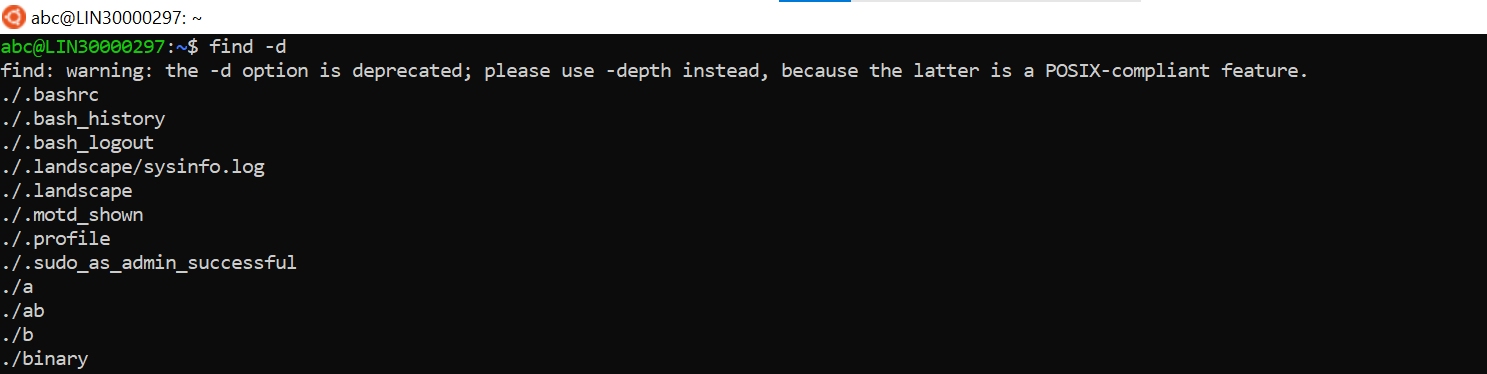
1. Search and display all \*.c and \*.h files in all subdirectories starting from current directory

* **find -type f -regex '.\*\.[c|h]'**



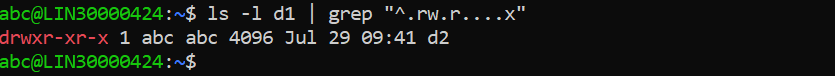
1. Search and display all directories in all subdirectories starting from current directory

* **find -d**



1. Search and display all files with permissions only rw with user and execute permission for others

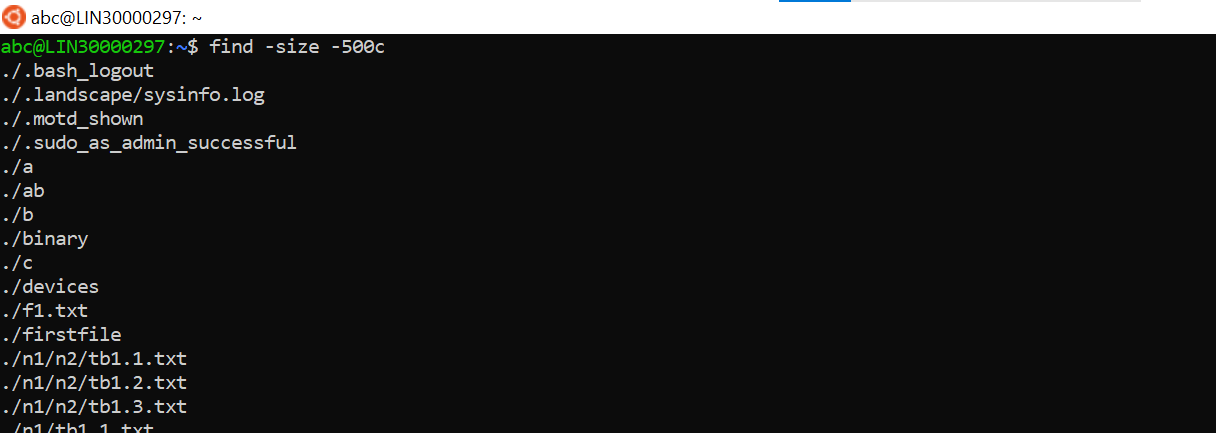
* **ls -l d1 | grep "^.rw.r....x"**



**Optional Assignments:**

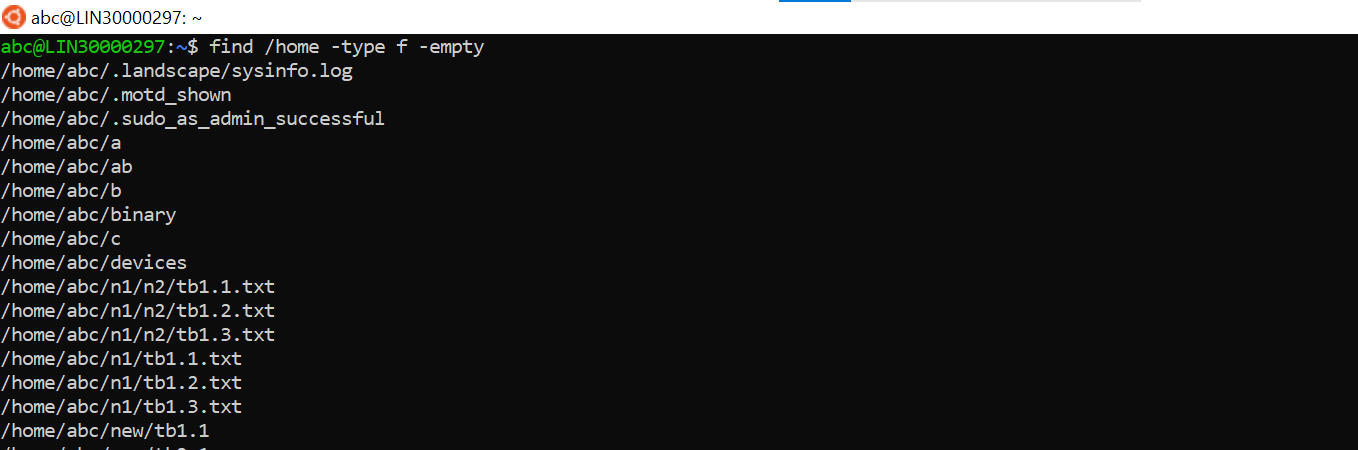
1. Search and copy all files whose size is < 500 bytes to a directory named “backup”

* **Find -size -500c**

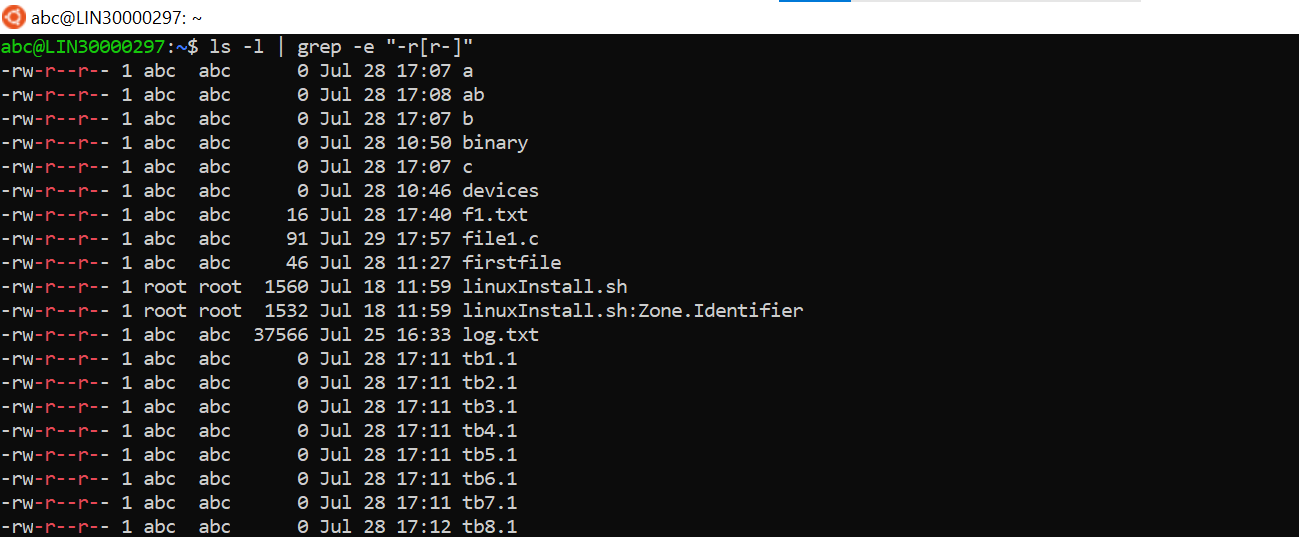


1. Starting from home directory , find and display all
   * 1. empty files

* **find /home -type f -empty**

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* + 1. readonly files
* **ls -l | grep -e "-r[r-]"**

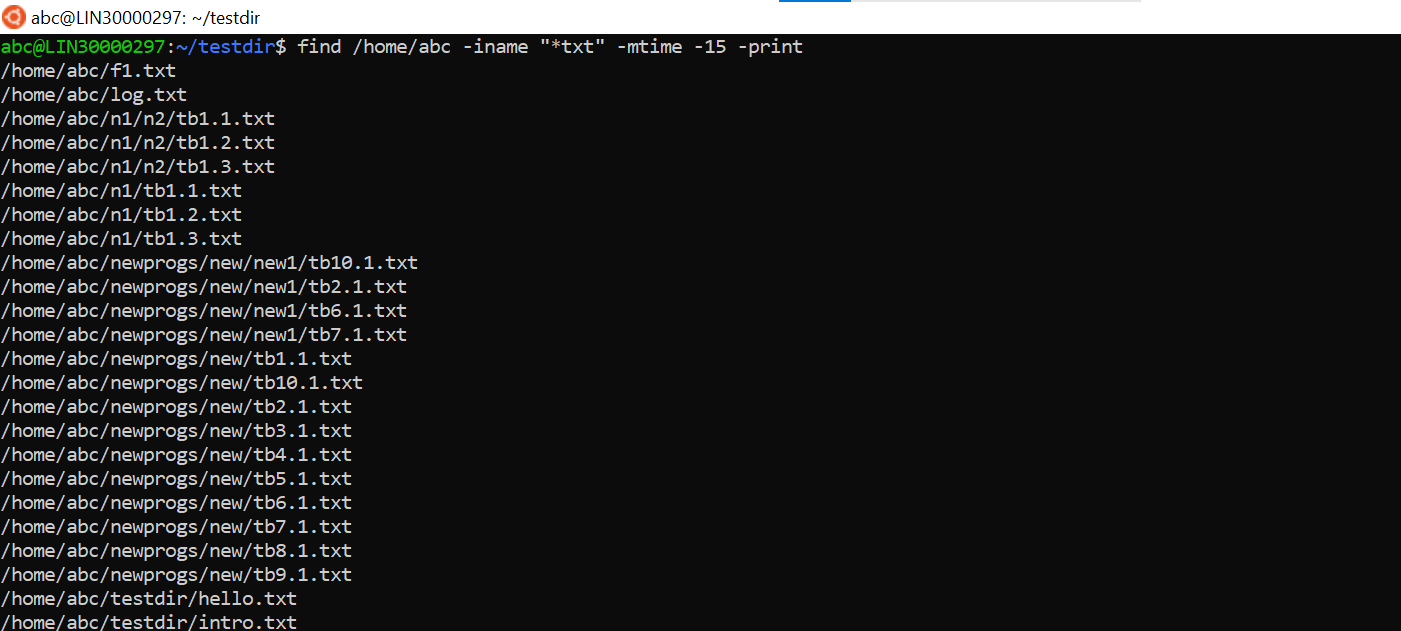


* + 1. all empty directories
* **find /home -type d -empty**



1. Search for a user input pattern in a set of files, extract all lines with the pattern , redirect to a file and display the contents of the file
2. Search and display all files which were modified in last 15 days

* **Find /home/abc -iname “\*txt” -mtime -15 -print**

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1. Search and display all file which were modified in last 10-15 days

* **Find /home/abc -iname “\*txt” -mtime -15 -print**

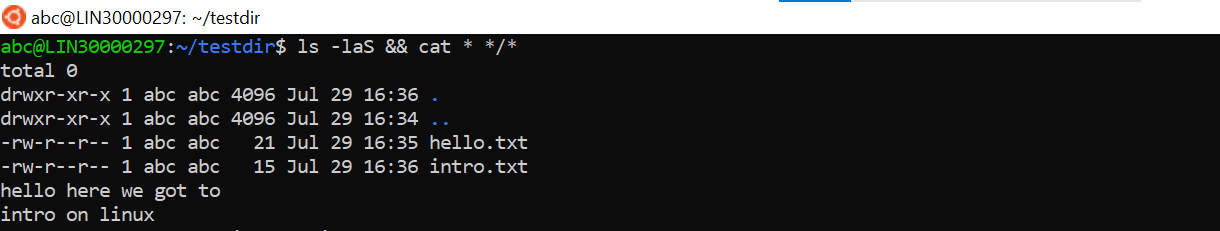
1. count the number of words in all \*.txt files in a directory and display

* **wc -w \*.txt**

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1. In a given directory sort all files based on their size (descending order) and then read and display the contents of each file

* **ls -laS && cat \* \*/\***

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