I, Trinadh kumar Atmuri, declare that I have completed this assignment completely and entirely on my own, without any unauthorized consultation from others or unathorized access to online websites. I have read the UAB Academic Honor Code and understand that any breach of the UAB Academic Honor Code may result in severe penalties.

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Date: 02/20/2023

Documentation:

printOnly() - This function is used to print only regular files or only regular files or only directories. I first get the file type for the current directory and if the file type matches top that which we want to print, then it will be shown on output.

printReg() - This function is used to print the file info when only ./search command is run.

printExtraInfo() - This function is used to print the extra information such as fileSize, filePermissions, and the last accessed time. We use ‘stat’ to get this information. Triggered when -S is specified.

sizeRestrictedPrint() – This function is triggered when -s is specified in path. We find the size of the file and if its size satisfies the <=maxSize, then those files are printed.

stringPattern() – This function is triggered when -f is specified in flags. Files are only displayed if pattern and the depth criteria is matched.

traverseDirectory() – This is mainly used to traverse in directory and subdirectories. We also use this when multiple flags are specified. We have a if.. else if ladder just for this.\

decryptArguments() – This function is used to get flags and path from the command line arguments.

Main() – In this we use a string that has all the flags specified in the command line which is passed to the traverseDirectory().