

Grep command is a very useful command that helps us to find matching words in a file and my option is "-w". I have chosen grep -w command and option because it allows us to find exactly the same words we are searching for. Sometimes the words we are looking for can appear in another word and this command line allows us to prevent this. Also that is the command I use in this assignment to find exact "\-w" occurrences in man grep file.

My program is 2a (My man and grep processes has sibling relationship and can run concurrently).

My program flow:

First I have created a pipe(fd1) and fork from my parent SHELL process. This first child process runs man grep command and writes into a pipe1 (fd[1]). After that I have created a new pipe (fd2) from my parent SHELL process. Then again from my parent SHELL process I have created a new child process with fork. This second child process reads from pipe1 (fd[0]) and runs a grep "\-w" -w -A 7 command which searches for exact -w occurrences in man grep file and writes first 7 lines into pipe2 (fd2[1]). Finally my parent SHELL process creates a output.txt file and writes the strings coming from pipe2 (fd2[0]) into output.txt file.

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