

Things to Search (Helper Functions)

Senior session link:

https://www.youtube.com/watch?v=bIcZaw_N7xQ&t=25s

Canonical & Non Canonical Modes

<https://viewsourcecode.org/snaptoken/kilo/02.enteringRawMode.html>

- 1) How to clear terminal screens?
<https://stackoverflow.com/a/67322430>
- 2) How to keep cursor at top left by default?
<https://stackoverflow.com/questions/10401724/move-text-cursor-to-particular-screen-coordinate>
- 3) Display Files & Directories
<https://stackoverflow.com/a/19534482>
- 4) Get file & Directory info
<https://stackoverflow.com/questions/612097/how-can-i-get-the-list-of-files-in-a-directory-using-c-or-c>
<https://pubs.opengroup.org/onlinepubs/009696799/functions/stat.html> (someone needs to check this)
- 5) Enter Non-canonical mode
<https://viewsourcecode.org/snaptoken/kilo/02.enteringRawMode.html>
- 6) Recognise the key pressed by the user and change cursor coordinates according to the key pressed
<https://stackoverflow.com/questions/24708700/c-detect-when-user-presses-arrow-key>
- 7) Pseudo Code for Normal Mode
- 8) How to resize terminal window using c++
<https://stackoverflow.com/questions/42169105/programmatically-expand-terminal-to-a-specific-size>
- 9) Open files with default application system call search
<https://unix.stackexchange.com/questions/114224/open-file-with-default-program-and-wait-until-the-app-is-terminated?rq=1>

- 10) How to read linux file permission programmatically in C/C++
<https://stackoverflow.com/questions/8812959/how-to-read-linux-file-permission-programmatically-in-c-c>
- 11) Get File size with C++
<https://stackoverflow.com/a/14613081>
- 12) Get File Last modified time with c++
<https://stackoverflow.com/questions/40504281/c-how-to-check-the-last-modified-time-of-a-file>
- 13) Get Owner name of file in c++
<https://stackoverflow.com/questions/40504281/c-how-to-check-the-last-modified-time-of-a-file>
- 14)
- 15)

Useful Libraries

- dirent.h
- sys/stat.h
- termios.h

Pseudo Code

```
clear_terminal(){  
    • How to clear terminal screens?  
    https://stackoverflow.com/a/67322430  
}
```

```
GetFiles(dir){  
    • Get files & directories in a vector  
    • Get Files & Directories with dirent.h  
    https://stackoverflow.com/a/19534482  
}
```

```
print_file_details(dirent_obj){
```

// Resources links

- How to read linux file permission programmatically in C/C++
<https://stackoverflow.com/questions/8812959/how-to-read-linux-file-permission-programmatically-in-c-c>
- Get File size with C++
<https://stackoverflow.com/a/14613081>
- Get File Last modified time with c++
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}

Set_WindowSize(){

// To-do

}

Print_N_Files(file_vector){

- Clear the screen
- Set_Cursor (position)
- For (pos in start->end){
 print_file_details(file_vector[pos]);
 }
-

}

Scroll Up(start_pos,end_pos){

- Clear the screen
- Print files from start_pos-1 -> end_pos-1

}

Scroll Down(start_pos,end_pos){

- Clear the screen
- Print files from start_pos+1 -> end_pos+1

}

Enable_Scrolling(){

- Set cursor = top_left
- Set cursor_tracker = cursor;
- While true
 Record Key UP & DOWN press;

```

        if(UP && up_limit reached){
            Scroll up(start,end);
        }
        Else if(DOWN && down_limit reached){
            Scroll down(start,end);
        }
        Else{
            move_cursor;
        }
    }
}

```

```

Normal_Mode(dir){
    Start_Non_Canonical()
    GetFiles(dir); // Returns vector containing all files and directory path
    Set_WindowSize() & start & end ptr for file navigation;
    Print_N_Files(file vector)
    Enable_Scrolling()
}

```

```

Int main(){
    Get current working directory;
    Store current directory as home;
    Normal_Mode(pass current directory path)
}

```