FILE_SYSTEM

main.c

Start Program

↓

Main function → if root directory creation failed → NULL

↓

Create root directory

↓

Create sub directory → file1.txt   file2.txt

↓

sub directory 1	sub directory 2
↓	↓
Create file	Create file
↓	↓
file3.txt	file4.txt

create directory function

create directory with parent and name

↓

create a memory allocation for newdirectory

↓

Copy the directory name
Initialize the parent and initialize children, files, next siblings as NULL

↓

Add the new directory to parents children

create file

create file with directory and name

↓

create a memory allocation for newfile

↓

Copy the file name
Initialize next as NULL

↓

Add the new file to the directory's files list