

```
1 #define _CRT_SECURE_NO_WARNINGS
2 #define MAXINODE 50
3 #define READ 1
4 #define WRITE 2
5 #define MAXFILESIZE 1024
6 #define REGULAR 1
7 #define SPECIAL 2
8 #define START 0
9 #define CURRENT 1
10 #define END 2
11
12 #include<stdio.h>
13 #include<stdlib.h>
14 #include<string.h>
15 #include<io.h>
16
17 typedef struct superblock
18 {
19     int TotlaInodes;
20     int FreeInode;
21 }SUPERBLOCK,*PSUPERBLOCK;
22 typedef struct inode
23 {
24     char FileName[50];
25     int InodeNumber;
26     int FileSize;
27     int FileActualSize;
28     int FileType;
29     char *Buffer;
30     int LinkCount;
31     int ReferenceCount;
32     int permissions;
33     struct inode *next;
34 }INODE,*PINODE,**PPINODE;
35 typedef struct filetable
36 {
37     int readoffset;
38     int writeoffset;
39     int count;
40     int mode;
41     PINODE ptrinode;
42 }FILETABLE,*PFILETABLE;
43 typedef struct ufdt
44 {
45     PFILETABLE ptrfiletable;
46 }UFD;
47
48 void man(char *name);
49 void DisplayHelp();
50 int GetFDFromName(char *name);
51 PINODE GET_Inode(char *name);
52 void CreateDILB();
53 void InitialiseSuperBlock();
54 int CreateFile(char *name , int permissions);
55 int rm_File(char *name);
56 int ReadFile(int fd , char *arr,int isize);
57 int WriteFile(int fd,char *arr,int isize);
58 int OpenFile(char *name, int mode);
59 void CloseFileByFd(int fd);
60 int CloseFileByName(char *name);
61 void CloseAllFile();
62 int LseekFile(int fd,int size , int from);
63 void ls_file();
64 int fstat_file(int fd);
65 int stat_file(char *name);
66 int truncate_File(char *name);
```