```
priorities
Nov 13, 15 15:26
                                                                          Page 1/2
2 class File {
   public:
     //inode metadata;
                                           // for use by all files
     struct stat metadata;
                                           // for use by all files
     // one or the other of the following (data and frame) should be empty.
     string data;
                                           // for use by regular files
     vector<dirent frame> dentries;
                                           // for use by directories
     //list<dirent_frame> dentries;
                                           // it'd be cleaner to make this a list
10
12
13 class Ilist {
   public:
     int count;
15
16
     map<ino_t,File> entry;
     int next()
17
       static int count = 2; // ino counter stats at 2.
18
19
       return count++;
20
   } ilist;
21
22
24 Implemeted and seem okay
void initialize()
int my_lstat( const char* path, struct stat *statbuf )
   int my_fstat( ino_t fh, struct stat* statbuf )
int my_mkdir( const char *path, mode_t mode )
29 MY_DIR* fopendir( ino_t fh )
   dirent* my_readdir( MY_DIR* dirp )
   int my_closedir( MY_DIR* dirp )
31
   MY_DIR * my_opendir( char path[PATH_MAX] )
   Implemented and being debugged.
   int my_mknod( const char *path, mode_t mode, dev_t dev ) // being debugged
35
37
   Implemented but untested
   int my_link(const char *path, const char *newpath)
   Helpers (implemented and seem fine)
   int ls(string s)
   ino_t lookup( string name, ino_t fh )
43 ino_t find_ino( string path )
44 File* find_file( ino_t ino )
   File* find_file( string s )
46 void show_stat( struct stat& root ) // displays a stat as Pfeiffer does.
   split(const string s, const string pat )
   join( const vector<string> v, const string pat, int start=0, int end=-1 )
50
   ______
53
   High priority (Get these working first)
   int my_rename( const char *path, const char *newpath )
   // changes name on a dentry and/or moves it to another directory
56 int my_link(const char *path, const char *newpath) // needs testing/debugging
   // my_link creates hard links, i.e., puts dentries into directories.
int my_unlink( const char *path ) // must destruct file when nlink == 0.
59 int my_creat( const char *fpath, mode_t mode ) // see my_mkdir for ideas.
60 int my_open( const char *path, int flags ) // with certain flags, 61 // open() must create a file, say via my_creat()
62 int my_close( int fh )
int my_pread( int fh, char *buf, size_t size, off_t offset )
   int my_pwrite( int fh, const char *buf, size_t size, off_t offset )
67 int my_access( const char *fpath, int mask ) // check bits of mode field
   int my_rmdir( const char *path ) // erase a dirent_frame from dentries
69 int my_chown(const char *path, uid_t uid, gid_t gid)
70 int my_chmod(const char *path, mode_t mode)
   // changes permission bits in the metadata's mode field
71
73 Low priority (note that we won't implement symbolic links for now.)
```

```
priorities
Nov 13, 15 15:26
                                                                             Page 2/2
   int my_readlink( const char *path, char *link, size_t size )
75 int my_symlink(const char *path, const char *link)
   int my_utime(const char *path, struct utimbuf *ubuf)
   int my_fdatasync( ino_t fh )
int my_fsync( ino_t fh )
   int my_ftruncate( ino_t fh, off_t offset )
   int my_truncate(const char *path, off_t newsize)
   int my statvfs(const char *fpath, struct statvfs *statv)
83 Very low priority
84 int my_lsetxattr( const char *fpath, const char *name, const char *value, size_t
    size, int flags )
   int my lqetxattr( const char *fpath, const char *name, char *value, size t size,
    int flags )
   int my_llistxattr( const char *path, char *list, size_t size )
   int my_lremovexattr( const char *path, const char *name )
90
91
```