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#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<dirent.h>
#include<string.h>

void getdir(){
    DIR *dir = opendir(".");
    if(dir == NULL){
        printf("No files exit\n");
    }

    struct dirent *entry;
    entry = readdir(dir);
    while(entry != NULL){
        if(entry -> d_name[0]!='.'){
            printf("%s\n",entry -> d_name);
        }
        entry = readdir(dir);
    }
    closedir(dir);
}

void getthdir(){
    DIR *dir = opendir(".");
    if(dir == NULL){
        printf("No files exit\n");
    }

    struct dirent *entry;
    entry = readdir(dir);
    while(entry != NULL){
        if(entry -> d_name[0]!='.'){
            printf("%s\n",entry -> d_name);
        }
        entry = readdir(dir);
    }
    closedir(dir);
}

void getindex(){
    DIR *dir = opendir(".");
    if(dir == NULL){
        printf("No files exit\n");
    }

    struct dirent *entry;
    entry = readdir(dir);

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while (entry != NULL) {
    if (entry->d_name[0] != '.') {
        printf("%s\t%d\n", entry->d_name, entry->d_ino);
    }
    entry = readdir(dir);
}
closedir(dir);
}

```

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void fileInfo(){
    DIR *dir = opendir(".");
    if(dir == NULL){
        printf("No files exist\n");
    }
    int ctr=1;
    struct dirent *entry;
    entry = readdir(dir);
    while (entry != NULL) {
        if (entry->d_name[0] != '.') {
            printf("%d\t%s\t%d\t%d\n",ctr++, entry->d_name, entry->d_ino, entry->d_type );
        }
        entry = readdir(dir);
    }
    closedir(dir);
}

```

```

int main(int argc, char *argv[]){
    int opt;
    while((opt = getopt(argc,argv, ":ilaf"))!=-1){
        switch(opt){
            case 'l':
                printf("l flag is used\n");
                getdir();
                break;

            case 'a':
                printf("a flag is used\n");
                gethdir();
                break;

            case 'i':
                printf("i flag is used\n");
                getindex();
                break;
            case 'f':
                printf("f flag is used\n");
                fileInfo();
                break;

```

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    default:
        printf("Unhandled option");
    }
}
for(;optind<argc;optind++){
    printf("Extra argumnets: %s",argv[optind]);
}
return 0;
}
```