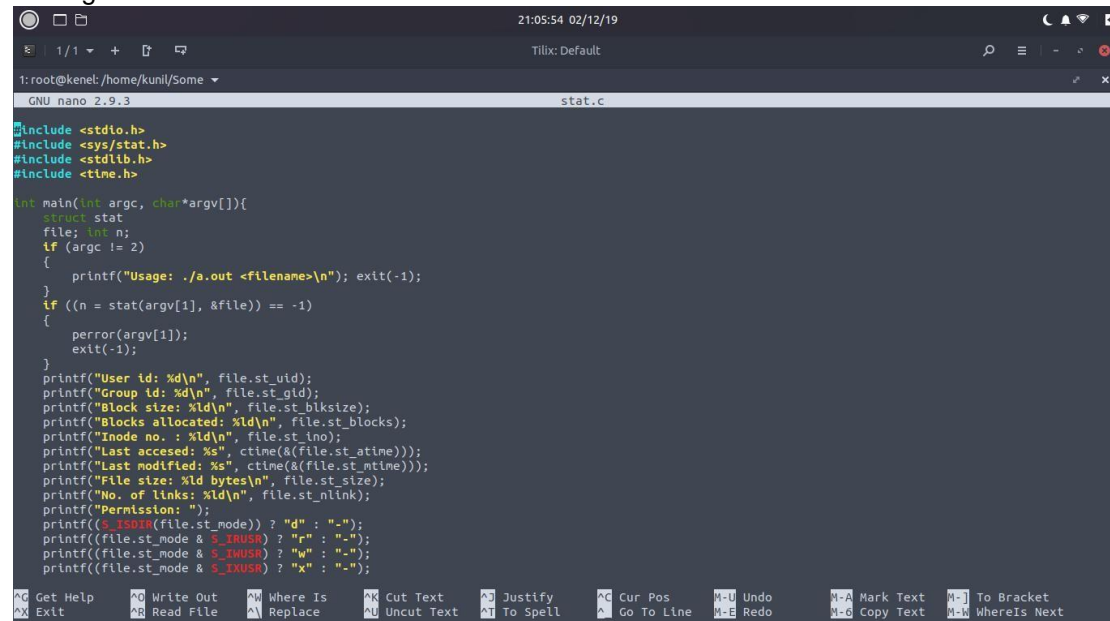


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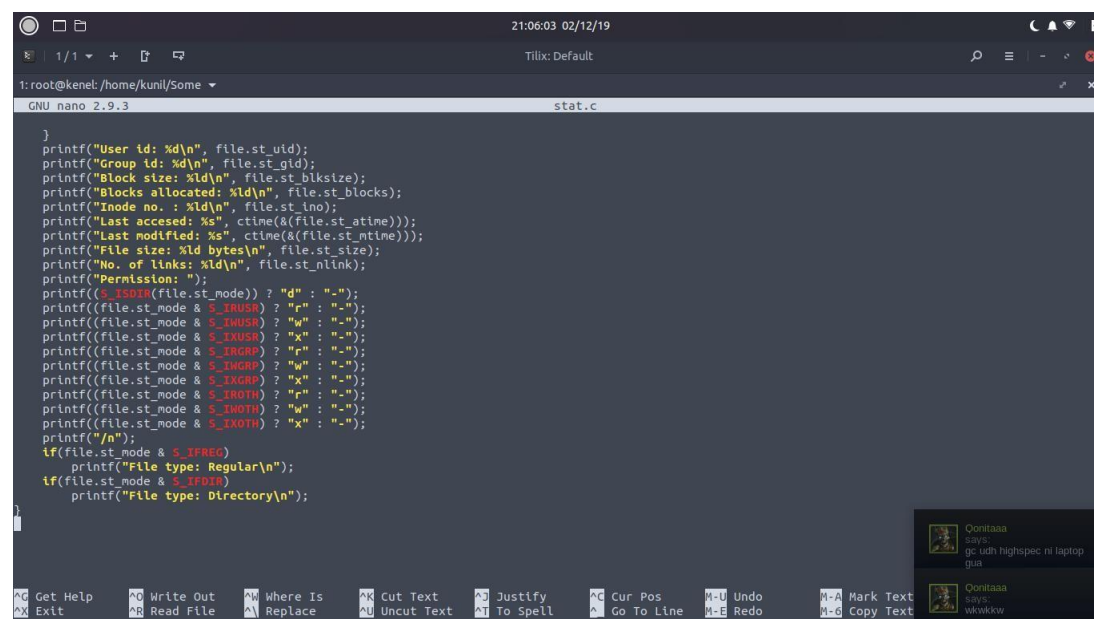
## Kodingan Stat.c



```
GNU nano 2.9.3 stat.c

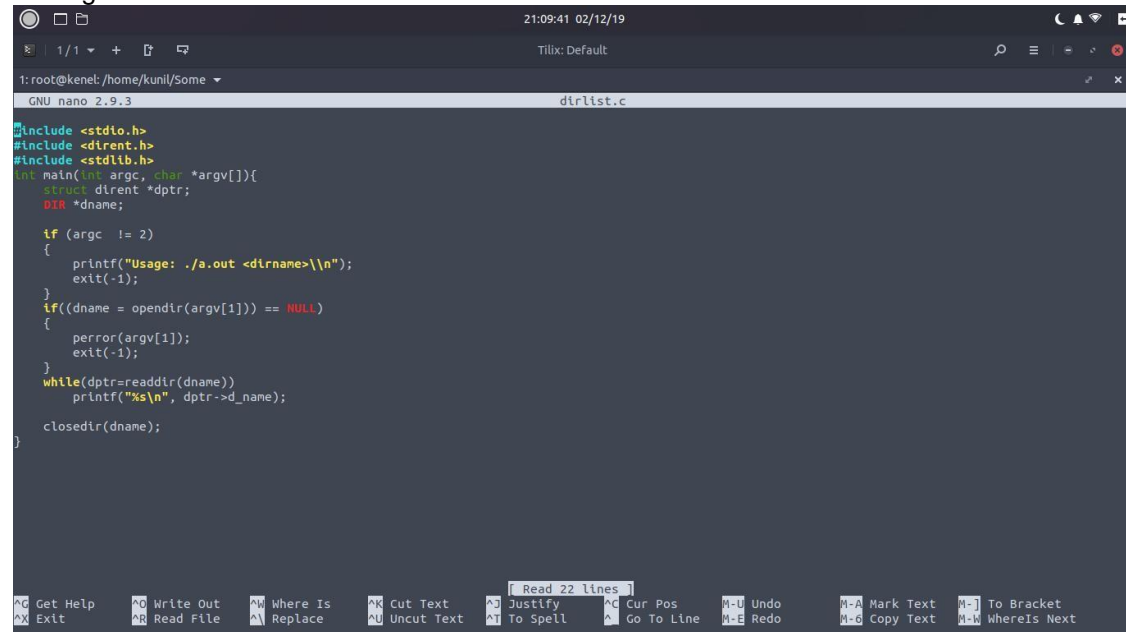
#include <stdio.h>
#include <sys/stat.h>
#include <stdlib.h>
#include <time.h>

int main(int argc, char*argv[]){
    struct stat
    file; int n;
    if (argc != 2)
    {
        printf("Usage: ./a.out <filename>\n"); exit(-1);
    }
    if ((n = stat(argv[1], &file)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    printf("User id: %d\n", file.st_uid);
    printf("Group id: %d\n", file.st_gid);
    printf("Block size: %ld\n", file.st_blksize);
    printf("Blocks allocated: %ld\n", file.st_blocks);
    printf("Inode no. : %ld\n", file.st_ino);
    printf("Last accessed: %s", ctime(&(file.st_atime)));
    printf("Last modified: %s", ctime(&(file.st_mtime)));
    printf("File size: %ld bytes\n", file.st_size);
    printf("No. of links: %ld\n", file.st_nlink);
    printf("Permission: ");
    printf((S_ISDIR(file.st_mode)) ? "d" : "-");
    printf((file.st_mode & S_IRUSR) ? "r" : "-");
    printf((file.st_mode & S_IWUSR) ? "w" : "-");
    printf((file.st_mode & S_IXUSR) ? "x" : "-");
```



```
        printf((file.st_mode & S_IRUSR) ? "r" : "-");
        printf((file.st_mode & S_IWUSR) ? "w" : "-");
        printf((file.st_mode & S_IXUSR) ? "x" : "-");
        printf((file.st_mode & S_IRGRP) ? "r" : "-");
        printf((file.st_mode & S_IWGRP) ? "w" : "-");
        printf((file.st_mode & S_IXGRP) ? "x" : "-");
        printf((file.st_mode & S_IROTH) ? "r" : "-");
        printf((file.st_mode & S_IWOTH) ? "w" : "-");
        printf((file.st_mode & S_IXOTH) ? "x" : "-");
        printf("\n");
        if(file.st_mode & S_IFREG)
            printf("File type: Regular\n");
        if(file.st_mode & S_IFDIR)
            printf("File type: Directory\n");
    }
}
```

## Kodingan dirlist.c



The screenshot shows a terminal window with the nano text editor open. The file being edited is `dirlist.c`. The code is as follows:

```
#include <stdio.h>
#include <dirent.h>
#include <stdlib.h>

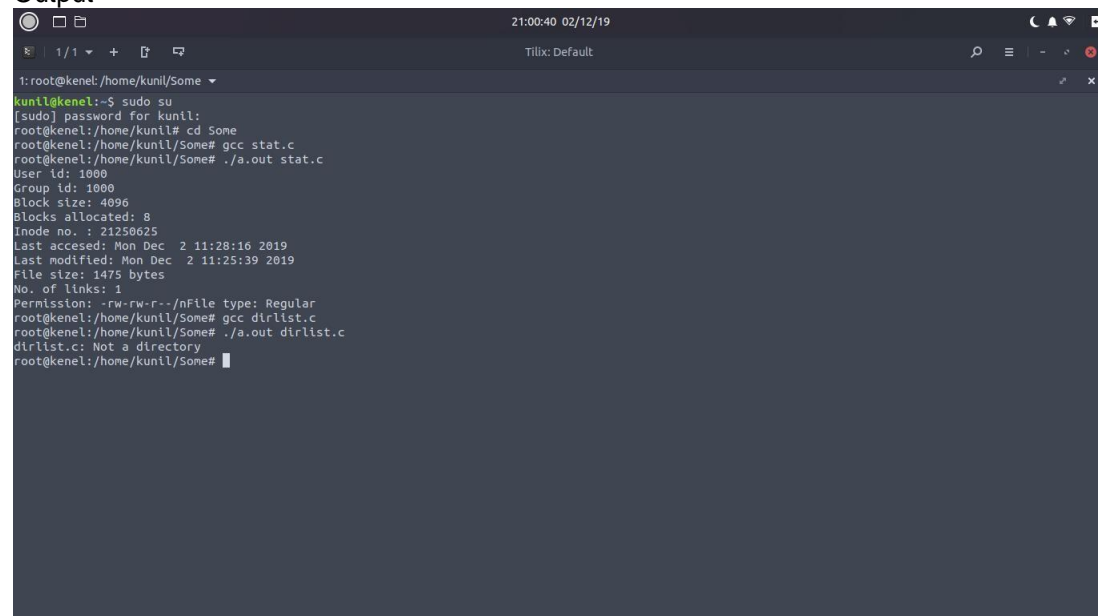
int main(int argc, char *argv[]){
    struct dirent *dptr;
    DIR *dname;

    if (argc != 2)
    {
        printf("Usage: ./a.out <dirname>\n");
        exit(-1);
    }
    if((dname = opendir(argv[1])) == NULL)
    {
        perror(argv[1]);
        exit(-1);
    }
    while(dptr=readdir(dname))
        printf("%s\n", dptr->d_name);

    closedir(dname);
}
```

The terminal window title is "Tilix: Default". The bottom status bar shows various keyboard shortcuts for nano editor operations.

## Output



The screenshot shows a terminal window with the following output:

```
kunil@kenel:~$ sudo su
[sudo] password for kunil:
root@kenel:/home/kunil# cd Some
root@kenel:/home/kunil/Some# gcc stat.c
root@kenel:/home/kunil/Some# ./a.out stat.c
User id: 1000
Group id: 1000
Block size: 4096
Blocks allocated: 8
Inode no. : 21250625
Last accessed: Mon Dec  2 11:28:16 2019
Last modified: Mon Dec  2 11:25:39 2019
File size: 1475 bytes
No. of links: 1
Permission: -rw-rw-r--/nFile type: Regular
root@kenel:/home/kunil/Some# gcc dirlist.c
root@kenel:/home/kunil/Some# ./a.out dirlist.c
dirlist.c: Not a directory
root@kenel:/home/kunil/Some#
```

The terminal window title is "Tilix: Default". The output shows the compilation and execution of the program, which correctly reports that `dirlist.c` is not a directory.