

Name : MAHARDHIKA BATHIARTO DIM ZARITA
NIM : L200184134
Class : X

Make the stat.c and compiler the stat.c, that is used to get information about file and structure.

```
Modul_8: bash — Konsole
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ gcc stat.c
stat.c:19:24: warning: format 'ld' expects argument of type 'int', but argument 2 has type '__blksize_t {aka long int}' [-Wformat=]
  printf("block size : %ld\n", file.st_blksize);
                        ^
                        |
                        |__
                        |__
stat.c:20:29: warning: format 'ld' expects argument of type 'int', but argument 2 has type '__blkcnt_t {aka long int}' [-Wformat=]
  printf("block allocated : %ld\n", file.st_blocks);
                        ^
                        |
                        |__
                        |__
stat.c:21:22: warning: format 'ld' expects argument of type 'int', but argument 2 has type '__ino_t {aka long unsigned int}' [-Wformat=]
  printf("inode no. : %ld\n", file.st_ino);
                        ^
                        |
                        |__
                        |__
stat.c:24:22: warning: format 'ld' expects argument of type 'int', but argument 2 has type '__off_t {aka long int}' [-Wformat=]
  printf("file size: %ld bytes\n", file.st_size);
                        ^
                        |
                        |__
                        |__
stat.c:25:26: warning: format 'ld' expects argument of type 'int', but argument 2 has type '__link_t {aka long unsigned int}' [-Wformat=]
  printf("no. of links : %ld\n", file.st_nlink);
                        ^
                        |
                        |__
                        |__
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ./a.out stat.c
user id : 1001
group id : 1001
block size : 4096
block allocated : 8
inode no. : 2727208
last accessed : Mon Dec 2 14:37:44 2019
last modified: Mon Dec 2 14:04:13 2019
file size: 1563 bytes
no. of links : 1
permissions : -rwxr-xr-x
file type : Regular
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$
```

Make a diirlist, it uses call system is readdir that has function to read a directory is structure 'dirent' it will give a pointer in next entry directory.

```
Modul_8: bash — Konsole
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ./a.out /home/mahar/GIT/Praktikum-SO
.git
Modul1_X_101.pdf
README.md
Modul_8
Modul5_X_101.pdf
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ./a.out /home/mahar/GIT/Praktikum-SO/Modul_8
fork.c
fork
fork.c.save
a.out
diirlist.c
exec.c
wait
stat.c
wait.c
..
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ./a.out /bin/ls
/bin/ls: Not a directory
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ./a.out /bin/la/ls
/bin/la/ls: No such file or directory
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ./a.out ls
ls: No such file or directory
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ls
a.out diirlist.c exec.c fork fork.c fork.c.save stat.c wait.c
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$ ./a.out /home/mahar/GIT/Praktikum-SO/Modul_8
fork.c
fork
fork.c.save
a.out
diirlist.c
exec.c
wait
stat.c
wait.c
..
mahar@donny-pc:~/GIT/Praktikum-SO/Modul_8$
```