

Nama : Anita Lusi Romadhon
NIM : L200180153
Kelas : D

1. Stat.c

```

#include <stdio.h>
#include <sys/stat.h>
#include <unistd.h>
#include <sys.h>

int main(int argc, char*argv[]) {
    struct stat
    file;
    int rc;
    if (argc != 2)
    {
        printf("Usage: ./a.out <filename>\n");
        return -1;
    }
    if ((rc = stat(argv[1], &file)) == -1)
    {
        perror(argv[1]);
        return -1;
    }
    printf("name: %s\n", file.st_name);
    printf("inode: %d\n", file.st_ino);
    printf("link count: %d\n", file.st_nlink);
    printf("device: %d\n", file.st_dev);
    printf("mode: %d\n", file.st_mode);
    printf("uid: %d\n", file.st_uid);
    printf("gid: %d\n", file.st_gid);
    printf("size: %d\n", file.st_size);
    printf("blksize: %d\n", file.st_blksize);
    printf("atime: %d\n", file.st_atime);
    printf("mtime: %d\n", file.st_mtime);
    printf("ctime: %d\n", file.st_ctime);
    printf("type: %d\n", file.st_mode & S_IFMT);
    printf("permissions: %d\n", file.st_mode & 0777);
    printf("file type: %d\n", file.st_mode & S_IFMT);
    printf("file name: %s\n", argv[1]);
}

```

```

$ gcc stat.c -o stat
$ ./stat /etc/passwd
Usage: ./a.out <filename>
Usage: ./a.out <filename>
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Usage: ./a.out <filename>

```

2. Dirlist.c

```

1 // Dirlist.c
2 #include <stdio.h>
3 #include <string.h>
4 #include <unistd.h>
5 #include <sys/types.h>
6 #include <sys/stat.h>
7 #include <dirent.h>
8
9 int main(int argc, char*argv[]) {
10     struct dirent *dentry;
11     DIR *dp;
12
13     if (argc != 2) {
14         printf("Usage: ./dirlist <dir>\n");
15         exit(-1);
16     }
17     if ((dp = opendir(argv[1])) == NULL) {
18         perror(argv[1]);
19         exit(-1);
20     }
21     while ((dentry = readdir(dp)) != NULL) {
22         printf("%s\n", dentry->d_name);
23     }
24     closedir(dp);
25 }

```

```

1 // Compile and run the program
2 gcc -o dirlist dirlist.c
3 ./dirlist /
4
5 // Output:
6 .
7 ..
8 bin
9 boot
10 dev
11 etc
12 home
13 lib
14 lib64
15 media
16 mnt
17 opt
18 root
19 run
20 sbin
21 srv
22 sys
23 tmp
24 usr
25 var

```