Write a C program to simulate the functionality of UNIX

commands like grep and ls command

**//grep**

#include <stdio.h>

#include <string.h>

int main() {

char filename[10],pattern[10],temp[200],res[100];

FILE \*fp;

printf("\n Enter file name:");

scanf("%s",filename);

printf("\n Enter the pattern:");

scanf("%s",pattern);

fp=fopen(filename,"r");

if(fp==NULL)

{

printf("\n Error opening file.\n");

return 1;

}

while(!feof(fp))

{

fgets(temp,sizeof(temp),fp);

if(str(temp,pattern))

{

printf("%s",temp);

}

}

fclose(fp);

return 0;

}

**//ls**

#include <stdio.h>

#include <stdlib.h>

#include <dirent.h>

int main(int argc, char \*argv[]) {

DIR \*dir;

struct dirent \*entry;

// Open the directory specified in the command-line argument or the current directory

if (argc == 1) {

dir = opendir(".");

} else if (argc == 2) {

dir = opendir(argv[1]);

} else {

printf("Usage: %s [directory]\n", argv[0]);

return 1;

}

// Check if directory was opened successfully

if (dir == NULL) { perror("Error");

return 1;

}

// List directory contents

printf("Contents of directory:\n");

while ((entry = readdir(dir)) != NULL) {

printf("%s\n", entry->d\_name);

}

// Close the directory

closedir(dir);

return 0;

}