9. Write a C program that will only list all subdirectories in alphabetical order from current directory.

#include <stdio.h>

#include <dirent.h>

#include <string.h>

#include <sys/types.h>

#include <sys/stat.h>

struct file\_info{

char fname[30];

};

int main(void)

{

struct dirent \*d;

struct file\_info fnames[100],temp;

struct stat info;

int i=0,j;

DIR \*dr = opendir(".");

if (dr == NULL)

{

printf("Could not open current directory" );

return 0;

}

while ((d = readdir(dr)) != NULL){

if (stat(d->d\_name, &info) == -1) {

printf("stat error");

}

if((info.st\_mode & S\_IFMT)==S\_IFDIR){

strcpy(fnames[i].fname,d->d\_name);

i++;

}

}

int length = i;

closedir(dr);

printf("Subdirecories in alphabetical order\n");

for(i=0;i<length-1;i++)

for(j=i+1;j<length;j++)

if(strcmp(fnames[i].fname,fnames[j].fname)>0){

temp=fnames[i];

fnames[i]=fnames[j];

fnames[j]=temp;

}

for(i=0;i<length;i++){

printf("File name is %s\n",fnames[i].fname);

}

return 0;

}