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Online C Compiler


sabari8883/operatingsystem

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Exp 01 - Edit PDF

C Program to Check if a Given String is Pa...

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main.c

Run

Output


Clear


```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #define MAX_FILES 100
5 #define MAX_FILENAME_LENGTH 50
6 typedef struct {
7     char name[MAX_FILENAME_LENGTH];
8 } File;
9 typedef struct {
10     char name[MAX_FILENAME_LENGTH];
11     File files[MAX_FILES];
12     int numFiles;
13 } Directory;
14 int createDirectory(Directory *dir, const char *name) {
15     strcpy(dir->name, name);
16     dir->numFiles = 0;
17     return 1;
18 }
19 int addFile(Directory *dir, const char *filename) {
20     if (dir->numFiles >= MAX_FILES) {
21         printf("Directory is full. Cannot add more files.\n");
22         return 0;
23     }
24     strcpy(dir->files[dir->numFiles].name, filename);
25     dir->numFiles++;
26     return 1;
27 }
28 void listFiles(const Directory *dir) {
29     printf("Files in directory '%s':\n", dir->name);
```

```
/tmp/uCyPCccy6W.o
Enter the names of 3 files to add to the directory:
File 1: sandy
File 2: ranjith
File 3: suriya
Files in directory 'CSE':
sandy
ranjith
suriya
```

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Output

Clear

```
25 return 1;
26 }
27 void listFiles(const Directory *dir) {
28     printf("Files in directory '%s':\n", dir->name);
29     for (int i = 0; i < dir->numFiles; i++) {
30         printf("%s\n", dir->files[i].name);
31     }
32 }
33 int main() {
34     Directory cseDirectory;
35     char filename[MAX_FILENAME_LENGTH];
36     if (!createDirectory(&cseDirectory, "CSE")) {
37         printf("Failed to create directory.\n");
38         return 1;
39     }
40     printf("Enter the names of 3 files to add to the directory:\n");
41     for (int i = 0; i < 3; i++) {
42         printf("File %d: ", i + 1);
43         scanf("%s", filename);
44         if (!addFile(&cseDirectory, filename)) {
45             printf("Failed to add file '%s' to the directory.\n", filename);
46             return 1;
47         }
48     }
49     listFiles(&cseDirectory);
50     return 0;
51 }
52
```

```
/tmp/uCyPCcy6W.o
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Files in directory 'CSE':
sandy
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