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#include <stdio.h>

#include <stdlib.h>

#include <string.h>


#define MAX_FILES 100

#define MAX_FILENAME_LENGTH 50


typedef struct {
    char name[MAX_FILENAME_LENGTH];
    int size;
} File;


File directory[MAX_FILES];
int fileCount = 0;


void createFile(const char* name, int size) {
    if (fileCount < MAX_FILES) {
        strcpy(directory[fileCount].name, name);
        directory[fileCount].size = size;
        printf("File created: %s (%d bytes)\n", name, size);
        fileCount++;
    } else {
        printf("Directory is full. Cannot create file.\n");
    }
}


void deleteFile(const char* name) {
    int found = 0;
    for (int i = 0; i < fileCount; i++) {
        if (strcmp(directory[i].name, name) == 0) {
            found = 1;
        }
    }
}
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    printf("File '%s' deleted successfully.\n", name);
    for (int j = i; j < fileCount - 1; j++) {
        strcpy(directory[j].name, directory[j + 1].name);
        directory[j].size = directory[j + 1].size;
    }
    fileCount--;
    break;
}
}
if (!found) {
    printf("File '%s' not found.\n", name);
}
}

void listFiles() {
    if (fileCount == 0) {
        printf("No files in the directory.\n");
    } else {
        printf("Files in the directory:\n");
        for (int i = 0; i < fileCount; i++) {
            printf("%s (%d bytes)\n", directory[i].name, directory[i].size);
        }
    }
}

void searchFile(const char* name) {
    int found = 0;
    for (int i = 0; i < fileCount; i++) {
        if (strcmp(directory[i].name, name) == 0) {
            found = 1;
            printf("File '%s' found. Size: %d bytes\n", name, directory[i].size);
        }
    }
}

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        break;
    }
}
if (!found) {
    printf("File '%s' not found.\n", name);
}
}
```

```
int main() {
    int choice;
    char filename[MAX_FILENAME_LENGTH];
```

```
    while (1) {
        printf("\n1. Create a file\n");
        printf("2. Delete a file\n");
        printf("3. List all files\n");
        printf("4. Search for a file\n");
        printf("5. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
```

```
        switch (choice) {
            case 1:
                printf("Enter filename: ");
                scanf("%s", filename);
                printf("Enter file size: ");
                int size;
                scanf("%d", &size);
                createFile(filename, size);
                break;
            case 2:
```

```
        printf("Enter filename to delete: ");
        scanf("%s", filename);
        deleteFile(filename);
        break;
case 3:
    listFiles();
    break;
case 4:
    printf("Enter filename to search: ");
    scanf("%s", filename);
    searchFile(filename);
    break;
case 5:
    exit(0);
default:
    printf("Invalid choice!\n");
    }
}

return 0;
}
```

```
C:\Users\kondur\OneDrive\ID  +  -  x
1. Create a file
2. Delete a file
3. List all files
4. Search for a file
5. Exit
Enter your choice: 1
Enter filename: 1
Enter file size: 1
File created: 1 (1 bytes)

1. Create a file
2. Delete a file
3. List all files
4. Search for a file
5. Exit
Enter your choice: 2
Enter filename to delete: 3
File '3' not found.

1. Create a file
2. Delete a file
3. List all files
4. Search for a file
5. Exit
Enter your choice: |
```

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Search

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