#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define MAX\_EMPLOYEES 100

struct employee {

char name[50];

int age;

char position[50];

char date\_of\_joining[11];

};

void sort\_by\_name(struct employee employees[], int n) {

int i, j;

struct employee temp;

for (i = 0; i < n - 1; i++) {

for (j = i + 1; j < n; j++) {

if (strcmp(employees[i].name, employees[j].name) > 0) {

temp = employees[i];

employees[i] = employees[j];

employees[j] = temp;

}

}

}

}

void sort\_by\_date(struct employee employees[], int n) {

int i, j;

struct employee temp;

for (i = 0; i < n - 1; i++) {

for (j = i + 1; j < n; j++) {

if (strcmp(employees[i].date\_of\_joining, employees[j].date\_of\_joining) > 0) {

temp = employees[i];

employees[i] = employees[j];

employees[j] = temp;

}

}

}

}

int main() {

struct employee employees[MAX\_EMPLOYEES];

int n, i;

printf("Enter the number of employees: ");

scanf("%d", &n);

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

printf("Enter details of employee %d:\n", i+1);

printf("Name: ");

scanf("%s", employees[i].name);

printf("Age: ");

scanf("%d", &employees[i].age);

printf("Position: ");

scanf("%s", employees[i].position);

printf("Date of joining (dd/mm/yyyy): ");

scanf("%s", employees[i].date\_of\_joining);

}

sort\_by\_name(employees, n);

printf("\nEmployee List sorted by name:\n");

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

printf("Name: %s\n", employees[i].name);

printf("Age: %d\n", employees[i].age);

printf("Position: %s\n", employees[i].position);

printf("Date of Joining: %s\n", employees[i].date\_of\_joining);

printf("\n");

}

sort\_by\_date(employees, n);

printf("\nEmployee List sorted by date of joining:\n");

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

printf("Name: %s\n", employees[i].name);

printf("Age: %d\n", employees[i].age);

printf("Position: %s\n", employees[i].position);

printf("Date of Joining: %s\n", employees[i].date\_of\_joining);

printf("\n");

}

return 0;

}