Write a cprogram to get the employee information name,age,position and Date of joining. Print the employee list based on Alphabaetical order. Display the order of the employees based on date of joining.

SAMPLE INPUT MODEL:

Enter the number of employees: 3

Enter details of employee 1:

Name: Jane

Age: 34

Position: HR

Date of joining (dd/mm/yyyy): 10/2/2000

Enter details of employee 2:

Name: Amie

Age: 23

Position: Sales

Date of joining (dd/mm/yyyy): 12/03/2004

Enter details of employee 3:

Name: Balu

Age: 45

Position: Security

Date of joining (dd/mm/yyyy): 1/1/1998

SAMPLE OUTPUT MODEL:

Employee List sorted by name:

Name: Amie

Age: 23

Position: Sales

Date of Joining: 12/03/2004

Name: Balu

Age: 45

Position: Security

Date of Joining: 1/1/1998

Name: Jane

Age: 34

Position: HR

Date of Joining: 10/2/2000

Employee List sorted by date of joining:

Name: Balu

Age: 45

Position: Security

Date of Joining: 1/1/1998

Name: Jane

Age: 34

Position: HR

Date of Joining: 10/2/2000

Name: Amie

Age: 23

Position: Sales

Date of Joining: 12/03/2004

PUBLIC TEST CASE:

3

Jane

34

HR

10/2/2000

Amie

23

Sales

12/03/2004

Balu

45

Security

1/1/1998

OUTPUT:

Employee List sorted by name:

Amie

23

Sales

12/03/2004

Balu

45

Security

1/1/1998

Jane

34

HR

10/2/2000

Employee List sorted by date of joining:

Balu

Jane

Amie

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

struct employee {

char name[50];

int age;

char position[50];

int doj\_day, doj\_month, doj\_year;

};

int namecmp(const void \*a, const void \*b) {

struct employee \*e1 = (struct employee \*) a;

struct employee \*e2 = (struct employee \*) b;

return strcmp(e1->name, e2->name);

}

int datecmp(const void \*a, const void \*b) {

struct employee \*e1 = (struct employee \*) a;

struct employee \*e2 = (struct employee \*) b;

if (e1->doj\_year != e2->doj\_year) {

return e1->doj\_year - e2->doj\_year;

} else if (e1->doj\_month != e2->doj\_month) {

return e1->doj\_month - e2->doj\_month;

} else {

return e1->doj\_day - e2->doj\_day;

}

}

int main() {

int n, i;

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

scanf("%d", &n);

struct employee employees[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("%d/%d/%d", &employees[i].doj\_day, &employees[i].doj\_month, &employees[i].doj\_year);

}

qsort(employees, n, sizeof(struct employee), namecmp);

printf("\nEmployee List sorted by name:\n\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: %d/%d/%d\n\n", employees[i].doj\_day, employees[i].doj\_month, employees[i].doj\_year);

}

qsort(employees, n, sizeof(struct employee), datecmp);

printf("\nEmployee List sorted by date of joining:\n\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: %d/%d/%d\n\n", employees[i].doj\_day, employees[i].doj\_month, employees[i].doj\_year);

}

return 0;

}

