

```

#include <stdio.h>

#include <stdbool.h>

#include <string.h>

//sortare dupa prima disciplina introdusa

struct Disciplina{

    char numeDs[20];

    int notaDs;

};

struct BAC{

    char nume[20];

    char prenume[20];

    struct Disciplina d[3];

} elev[5];

void afisare(struct BAC *elev_ref, int nr){

    printf("\nDatele elevilor afisate din functiei\n");

    for(int i=0; i<nr; ++i){

        printf("\n%s %s", (elev_ref+i)->nume, (elev_ref+i)->prenume);

        for(int j = 0; j<2; j++){

            printf(" %s", (elev_ref+i)->d[j].numeDs);

            printf(" %i", (elev_ref+i)->d[j].notaDs);}

        }

    }

}

void citire(struct BAC *elev_ref, int nr){

    for (int i = 0; i<nr; ++i){

        printf("Introdu datele elevului %i:", i+1);

        printf("\nNume:\n");

        scanf("%s", (elev_ref+i)->nume);

        printf("\nPrenume:\n");

        scanf("%s", (elev_ref+i)->prenume);

        for(int j = 0; j<2; j++){

            printf("\nIntrodu disciplina:\n");

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scanf("%s", &(elev_ref+i)->d[j].numeDs);

printf("\nNota:\n");

scanf("%i", &(elev_ref+i)->d[j].notaDs);

}

}

}

float media_dis(struct BAC *elev_ref, int k){

float sum=0;

for(int j = 0; j<2; j++){

sum += (elev_ref+k)->d[j].notaDs;

}

return sum/2;

}

/*void sortare(struct BAC *elev_ref, int n){

bool sortat;

do

{

sortat = true;

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

if((elev_ref+i)->d[0].notaDs > (elev_ref+i+1)->d[0].notaDs)

{

int aux = (elev_ref+i)->d[0].notaDs;

(elev_ref+i)->d[0].notaDs = (elev_ref+i+1)->d[0].notaDs;

(elev_ref+i+1)->d[0].notaDs = aux;

sortat = false;

}

}

while(!sortat);

afisare(elev_ref, n);

}*/

void selectie(struct BAC *elev_ref, int n){

```

```

for(int i = 0 ; i < n - 1 ; i++)
{
    int p = i;
    for(int j = i + 1 ; j < n ; j++)
        if((elev_ref+j)->d[0].notaDs < (elev_ref+p)->d[0].notaDs)
            p= j;
    char aux_nume[20];
    strcpy(aux_nume, (elev_ref+i)->nume);
    strcpy((elev_ref+i)->nume, (elev_ref+p)->nume);
    strcpy((elev_ref+p)->nume, aux_nume);

    char aux_prenume[20];
    strcpy(aux_prenume, (elev_ref+i)->prenume);
    strcpy((elev_ref+i)->prenume, (elev_ref+p)->prenume);
    strcpy((elev_ref+p)->prenume, aux_prenume);

    for(int j = 0; j<2; j++){

        char aux_dis[20];
        strcpy(aux_dis, (elev_ref+i)->d[j].numeDs);
        strcpy((elev_ref+i)->d[j].numeDs, (elev_ref+p)->d[j].numeDs);
        strcpy((elev_ref+p)->d[j].numeDs, aux_dis);

        int aux = (elev_ref+i)->d[j].notaDs;
        (elev_ref+i)->d[j].notaDs = (elev_ref+p)->d[j].notaDs;
        (elev_ref+p)->d[j].notaDs = aux;

    }
}

printf("\nDupa sortare\n");
afisare(elev_ref, n);

```

```
}
```

```
int main()
```

```
{
```

```
struct BAC *ptr;
```

```
ptr = &elev;
```

```
int i, n;
```

```
printf("n="); scanf("%i", &n);
```

```
float media[n];
```

```
citire(ptr, n);
```

```
afisare(ptr, n);
```

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

```
    media[i]=media_dis(ptr, i);
```

```
}
```

```
/* for( i = 0; i<n; ++i){
```

```
    printf("\n%s %s: %.2f", (ptr+i)->nume, (ptr+i)->prenume, media[i] );
```

```
} */
```

```
//sortare(ptr, n);
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```
selectie(ptr, n);
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```
return 0;
```

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}
```