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Language C

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main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 struct Student {
5     char name[40];
6     int elective;
7 };
8
9 int main(){
10     int i,j,choice,n,least,temp;
11     int count[3] = {0,0,0};
12     char electives[3][40] = {"IOT","Advanced Java","J2EE"};
13     printf("Enter number of students: ");
14     scanf("%d",&n);
15
16     struct Student student[n];
17
18     for(i=0;i<3;i++){
19         printf("\n%d-%s",i+1,electives[i]);
20     }
21
22     for(i=0;i<n;i++){
23         printf("\nEnter the name of student: ");
24         scanf("%s",student[i].name);
25         printf("\nEnter the choice: ");
26         scanf("%d",&student[i].elective);
27     }
28
29     for(i=0;i<n;i++){
30         if(student[i].elective == 1){
31             count[0]++;
32         }else if(student[i].elective == 2){
33             count[1]++;
34         }else{
35             count[2]++;
36         }
37     }
```

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```
35     count[2]++;
36 }
37 }
38
39 printf("\nOperation 1: \n");
40 printf("Enter the choice of elective you want to get the list for: \n");
41 int x;
42 scanf("%d",&x);
43
44 for(i=0;i<n;i++){
45     if(student[i].elective == x){
46         printf("> %s\n",student[i].name);
47     }
48 }
49
50 printf("Operation 2\n");
51 printf("Number of students in %s elective: %d\n",electives[0],count[0]);
52 printf("Number of students in %s elective: %d\n",electives[1],count[1]);
53 printf("Number of students in %s elective: %d\n",electives[2],count[2]);
54
55 printf("Operation 3\n");
56
57 if(count[0] < 3){
58     printf("%s students must chose another elective due to less number\n",electives[0]);
59     printf("choose between Advanced Java(2) and J2EE(3)\n");
60     scanf("%d",&choice);
61     for(i=0;i<n;i++){
62         if(student[i].elective == 1){
63             student[i].elective = choice;
64             count[0]--;
65             count[choice-1]++;
66         }
67     }
68 }
69
70 if(count[1] < 3){
```



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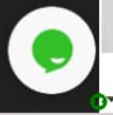
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```
70 if(count[1] < 3){
71     printf("%s students must chose another elective due to less number\n",electives[1]);
72     printf("choose between IOT(1) and J2EE(3)\n");
73     scanf("%d",&choice);
74     for(i=0;i<n;i++){
75         if(student[i].elective == 2){
76             student[i].elective = choice;
77         }
78         count[0]--;
79         count[choice-1]++;
80     }
81 }
82 if(count[2] < 3){
83     printf("%s students must chose another elective due to less number\n",electives[2]);
84     printf("choose between Advanced Java(1) and J2EE(2)\n");
85     scanf("%d",&choice);
86     for(i=0;i<n;i++){
87         if(student[i].elective == 3){
88             student[i].elective = choice;
89         }
90         count[0]--;
91         count[choice-1]++;
92     }
93 }
94 printf("Number of students in %s elective: %d\n",electives[0],count[0]);
95 printf("Number of students in %s elective: %d\n",electives[1],count[1]);
96 printf("Number of students in %s elective: %d\n",electives[2],count[2]);
97
98 printf("Operation 4\n");
99
100 for(i=0;i<3;i++){
101     printf("\nStudents in %s: \n",electives[i]);
102     for(j=0;j<n;j++){
103         if(student[j].elective == (i+1)){
104             printf("> %s\n",student[j].name);
105         }
```



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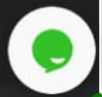
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```
74 -     for(i=0;i<n;i++){
75 -         if(student[i].elective == 2){
76 -             student[i].elective = choice;
77 -         }
78 -         count[0]--;
79 -         count[choice-1]++;
80 -     }
81 - }
82 - if(count[2] < 3){
83 -     printf("%s students must chose another elective due to less number\n",electives[2]);
84 -     printf("choose between Advanced Java(1) and J2EE(2)\n");
85 -     scanf("%d",&choice);
86 -     for(i=0;i<n;i++){
87 -         if(student[i].elective == 3){
88 -             student[i].elective = choice;
89 -         }
90 -         count[0]--;
91 -         count[choice-1]++;
92 -     }
93 - }
94 - printf("Number of students in %s elective: %d\n",electives[0],count[0]);
95 - printf("Number of students in %s elective: %d\n",electives[1],count[1]);
96 - printf("Number of students in %s elective: %d\n",electives[2],count[2]);
97 -
98 - printf("Operation 4\n");
99 -
100 - for(i=0;i<3;i++){
101 -     printf("\nStudents in %s: \n",electives[i]);
102 -     for(j=0;j<n;j++){
103 -         if(student[j].elective == (i+1)){
104 -             printf("> %s\n",student[j].name);
105 -         }
106 -     }
107 - }
108 - return 0;
109 - }
```



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input

Enter number of students: 3

1-IOT

2-Advanced Java

3-J2EE

Enter the name of student: John

Enter the choice: 1

Enter the name of student: Mike

Enter the choice: 2

Enter the name of student: Sam

Enter the choice: 3

Operation 1:

< Enter the choice of elective you want to get the list for:

1

> John

Operation 2

Number of students in IOT elective: 1

Number of students in Advanced Java elective: 1

Number of students in J2EE elective: 1

Operation 3

IOT students must chose another elective due to less number

choose between Advanced Java(2) and J2EE(3)

2

Advanced Java students must chose another elective due to less number

choose between IOT(1) and J2EE(3)

3

Number of students in IOT elective: -3

Number of students in Advanced Java elective: 2

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input

Enter the choice: 3

Operation 1:

Enter the choice of elective you want to get the list for:

1

> John

Operation 2

Number of students in IOT elective: 1

Number of students in Advanced Java elective: 1

Number of students in J2EE elective: 1

Operation 3

IOT students must chose another elective due to less number

choose between Advanced Java(2) and J2EE(3)

2

Advanced Java students must chose another elective due to less number

choose between IOT(1) and J2EE(3)

3

Number of students in IOT elective: -3

Number of students in Advanced Java elective: 2

Number of students in J2EE elective: 4

Operation 4

Students in IOT:

Students in Advanced Java:

Students in J2EE:

> John

> Mike

> Sam

...Program finished with exit code 0

Press ENTER to exit console.