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#include <stdio.h>
#include <string.h>
typedef struct student
{
    char name[20];
    int ele;
} student;

void Enter(int n, student s[])
{
    printf("The electives are: \n1. IOT \n2. JAVA \n3. DS \n");
    printf("Enter the student details (Name, Elective)");
    for (int i=0; i<n; i++)
    {
        printf("\n Student %d \n", i+1);
        scanf("%s %d", s[i].name, &s[i].ele);
    }
}

void Same(int n, student s[])
{
    int x;
    printf("\n Enter your elective number: ");
    scanf("%d", &x);
    printf("Same elective students are: \n");
    if (n>0)
    {
        for (int a=0; a<n; a++)
        {
            if (x == s[a].ele)
            {
                printf("%s \n", s[a].name);
            }
        }
        else { printf("\n No students entered"); }
    }
}

void count(int n, student s[])
{
    int i=0, j=0, d=0;
    for (int x=0; x<n; x++)
    {
        if (s[x].ele == 1)
            i++;
        else if (s[x].ele == 2)
            j++;
        else if (s[x].ele == 3)
            d++;
    }
    printf("IOT : %d \n JAVA : %d \n DS : %d", i, j, d);
}

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void check(int n, student s[])
{
    int x, c=0;
    char nm[20];
    printf("Enter your selective: ");
    scanf("%d", &x);
    for(int i=0; i<n; i++)
    {
        if(x == s[i].ele)
            c++;
    }
    if(c < 30)
    {
        printf("In Reselect your elective\n");
        printf("Enter your name: \n");
        scanf("%s", nm);
        for(int p=0; p<n; p++)
        {
            if(!strcmp(nm, s[p].name))
            {
                printf("Enter new elective: \n");
                scanf("%d", &s[p].ele);
                count(n, s);
                break;
            }
        }
    }
}

void display(int n, student s[])
{
    for(int e=1; e<=3; e++)
    {
        printf("\n Elective %d\n", e);
        for(int i=0; i<n; i++)
        {
            if(e == s[i].ele)
                printf("%s\t", s[i].name);
        }
    }
}

int main(void)
{
    int n, ch;
    printf("\nEnter the no of students to enter: ");
    scanf("%d", &n);
    student s[n];
    Enter(n, s);
    do
    {
        printf("\n1. CHECK SAME ELECTIVE\n2. COUNT ALL\n3. CHECK\n4. DISPLAY\n5. EXIT\n");
        printf("Enter choice: ");
    }
}

```

```
switch (ch);  
{ case 1: same(n,s);  
  break;  
  case 2: count(n,s);  
  break;  
  case 3: check(n,s);  
  break;  
  case 4: display(n,s);  
  break;  
  default: if (ch != 5)  
    printf ("Enter valid option :");  
}  
} while (ch != 5)  
return 0;  
}
```