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#include < st dio.h>
#include < stdlib.h>
 struct Student ?
     char name [40];
    int elective;
 int main
     int i, j, choice, n, least, temp;
     int count[3] = {0,0,0).
     char electives [3][40] = {"IOT", "Advanced
              Java", "J2EE"];
     print! ("Enter the number of students:
     scant ("1.d", &n);
     struct Student student [n];
     for (i=0; i<3; i++)}
         printf("\n\d-\s", i+1, electives [i]);
      for (i=0: i<n; i++
          printf ("In Enter the name of student:");
scanf (":1.s", student [i]. name);
          printf ("In Enter the choice: ");
scant ("Id", & student [i]. elective)
      for (i=0; i<n; i++) 1
         if (student[i], elective == 1)
            count[0]++.
           else if (student[i]. elective = = 2
             count[1]++.
          ] else }
           count [2]++;
```

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printl ("In Operation 1: In");
printl ("Enter the choice of elective you want to
get the list for: In");
       "1.d", &x
tor (i=0; i<n; i++) {
    if (student [i] elective = = x) {
      printf (">1.s/n", student [i].name
 printf("Operation 2 ln");
printf("Number of students in 1.s elective:

1.d ln", electives[0], count[0]);
  printf ("Number of students in 1.5 elective:
           1.d/n" electives [1], count [1]
  printf ("Number of students in 1.5 electives:
  print("Operation 3\n");
if (count[0]<3) {
    printf ("1.2 Students must choose another
          elective due to less number 'n"
            electives[0]):
     printf ("choose between Advanced Java (2)
     and J2EE (3) \n");
scanf (".1.d", & choice);
     for (i=0; i<n, i++)
           if (student [i] elective == 1)
         student [i]. elective = choice;
             count[0]--
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count [choice-1] ++.
if (count[1] < 3) }
  printf (" 1.c students must choose another
        elective due to less number In"
         electives[1]):
   printf ("choose between IOT (1) and JZEF (3)/1)
   scanf (" 1.d", & choice).
   for [i=0: i(n: i++)}
      it (student [i]. elective == 2)
        Student[i]. elective = choice;
       count[0]--:
       count[choice-1]++;
if (count[2](3) {
   printf ("1.5 students must choose another
         elective due to less number In"
          electives [2]);
   printf ("choose between Advanced Java(1)
         and JEEE (2) /n"
   scanf ("1.d", 4 choice);
   for (i=0; i<n; i++) }
       if (student [i]. elective = = 3) {
           student [i] elective = choice;
        count[0] --:
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count [choice-1]++;
printf (" Number of students in 1/s elective:
        1.d In", electives [O], count [O]);
printf ("Number of students in 1.'s elective:
         1.d \n", electives [1], count [1]);
printf ["Number of students in 1.s elective:
          1.d/n", electives [2], count [2]);
 printf ("Operation 4 m");
 for (i=0. i <3; i++) {

printf ("\n Students in 1.s: \n", electives[i]);
         (j=0; j<n; j++) }
if (students[j].electives == (i+1)) }
printf (">1.8 \n", student [j]. name
 return 0:
```