```
#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", " J2FE"];
      printle ("Enter the number of students:
      scanf ("1.2", 2n);
      Struct Student student [n];
      for (i=0; i<3; i++) }
           printf("\n'1.d-1.s", i+1, electives [i]);
           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++) }
          if (student [i]. elective == 1)
              count[0]++.
           else if (student[i]. elective = = 2
               count[1]++.
           ] else {
               count [2]++;
```

```
In Operation 1: In"
     "Enter the choice of elective you want to get the list for: In");
   i=0; i<n; i++)
     student [i] elective = = x)
             "> 1.3 m", student [i]. name
       "Operation 2 h");
"Number of students in 1.s elective:
            In", electives[0], count[0])
printf ("Number of students in 1.5 elective:
              ", electives [1], count [1]
       Number of students in it's electives:
                , electives[2], count[2]);
   ount[0] < 3) {
  printf ("1.2 Students must choose another
       elective due to less number
         electives[0]).
         ("choose between Advanced Java (2)
              and JZEE (3) \n");
         " -1.2"
                , Achoice
   Por (i=0; ikn; i++)
           (student [i]. elective = = 1) {
            student [i] elective = choice;
            count[0] --.
```

```
count [choice-1] ++;
if (count[1] < 3)
  printf ("1.5 students must choose another
        elective due to less number In"
         electives[1]);
   printf ("choose between IOT (1) and JZEE (3)
   scanf (" 1.2", & choice).
    for ( i=0. ikn. i++)
      il (student [i]. elective = = 2)
         Student[i] elective = choice;
       count[0]--:
       count[choice-1]++:
if (count[2] < 3) {
   printf ("1.s students must choose another
         elective due to less number In"
          electives [2]):
   printf ("chouse between Advanced Java(1)
           and J2EE (2) /n"
   scanf ("1.d", 4 choice):
   for (i=0; i<n; i++)
       if Istudent [i] elective = = 3
           student [i]. elective = choice;
        count[0] --:
```

```
count [choice-1]++:
printf (" Number of students in 1/s elective:
        !d In", electives[0], count[0]);
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]);
        ("Operation 4 m");
 for (i=0. i < 3; i++)
            ("In Students in 1.s: In", electives(i);
        (j=0; j<n; j++) {
    if (students[j].electives == (i+1)) {
        printf(">1.8 \n", student[j]. name)
 return 0:
```