

(07)
1 Ans)

```
#include <stdio.h>
#include <string.h>
int main()
{
    const int n;
    printf("enter the number of students:");
    scanf("%d", &n);
    printf("choose the option:\n");
    scanf("%d", &n);
    printf("1-interact of things\n");
    printf("2-advanced java\n");
    printf("3-advanced data structures\n");
    char name[n][20];
    int choice[n];
    char id[n][20];
    char a[n][20];
    char ads[n][20];
    int i;
    while(i < n, i < 0, ads[i] = 0; i++)
    {
        printf("enter the names of choice of students:\n");
        for(j = 0; j < n; j++)
        {
            printf("%d", j+1);
            scanf("%s %d", name[j], &choice[j]);
        }
    }
}
```

```

for (i = 0; i < n; i++)
{
    if (choice[i] == 1)
    {
        strcpy (iot[iotc], name[i]);
        iotc++;
    }
    else if (choice[i] == 2)
    {
        strcpy (aj[ajc], name[i]);
        ajc++;
    }
    else if (choice[i] == 3)
    {
        strcpy (ads[adsc], name[i]);
        adsc++;
    }
}

```

```

printf ("The student in iot : \n");
for (i = 0; i < iotc; i++)
    printf ("%s\n", iot[i]);
printf ("The student in aj : \n");
for (i = 0; i < ajc; i++)
    printf ("%s\n", aj[i]);

```

```

printf ("The student in ads : \n");
for (i = 0; i < adsc; i++)
    printf ("%s\n", ads[i]);
if (iotc < 5)
{

```

```

    printf ("The number of students age less in  

    iot, please choose other courses : \n");
}

```



```

int main() {
    int i, j, k;
    for (i = 0; i < 10; i++) {
        printf("%s: ", iot[i]);
        scanf("%d", &main_iot[i]);
    }
    for (i = 0; i < 10; i++) {
        if (main_iot[i] == 2) {
            strcpy(aj[i], iot[i]);
            ajc++;
        }
        else if (main_iot[i] == 3) {
            strcpy(adc[i], iot[i]);
            adc++;
        }
    }
    printf("The student may:\n");
    for (i = 0; i < ajc; i++) {
        printf("%s\n", aj[i]);
    }
    printf("The student in adc:\n");
    for (i = 0; i < adc; i++) {
        printf("%s\n", adc[i]);
    }
    else if (ajc < 5) {
        printf("The number of students are less in aj; please choose other courses\n");
    }
}

```

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int choice = aj[ajc];
for (i = 0; i < ajc; i++)
{
    printf("%s\n", aj[i]);
    scanf("%d", &choice - aj[i]);
}
for (i = 0; i < ajc; i++)
{
    if (choice - aj[i] == 2)
    {
        strcpy(stot[iotc], aj[i]);
        iotc++;
    }
}

```

```

else if (choice - aj[i] == 3)
{
    strcpy(ads[adsc], aj[i]);
    adsc++;
}
}

```

```

printf("The student is not\n");
for (i = 0; i < iotc; i++)
    printf("%s\n", stot[i]);
printf("The student is not\n");
for (i = 0; i < adsc; i++)
    printf("%s\n", ads[i]);
}

```

```

else if (adsc < 5)
{

```

```

    printf("The number of students are less\n");
    printf("in ads, please choose other course\n");
}

```



```

int choice_ads[adsc];
for (i=0; i<adsc; i++)
{
    printf("%s:", ads[i]);
    scanf("%d", &choice_ads[i]);
}
for (i=0; i<adsc; i++)
{
    if (choice_ads[i]==2)
    {
        strcpy(not[i], ads[i]);
        notc++;
    }
    else if (choice_ads[i]==3)
    {
        strcpy(ajc[i], ads[i]);
        ajc++;
    }
}
printf("The students in not: \n");
for (i=0; i<notc; i++)
    printf("%s\n", not[i]);
printf("The students in aj: \n");
for (i=0; i<ajc; i++)
    printf("%s\n", aj[i]);
return 0;
}

```

```
#include <stdio.h>
float sumaver (int num1, int num2)
{
    int sum = 0;
    sum = num1 + num2;
    printf ("The sum of the numbers is %d\n",
           sum);
    float avg = 0.0;
    avg = (num1 + num2) / 2;
    return avg;
}

void print even (int num1, int num2)
{
    if ((num1 % 2) == 0)
    {
        for (int i = num1 + 2; i < num2; i += 2)
        {
            printf ("%d", i);
        }
    }
    else
    {
        for (int i = num1 + 1; i < num2; i += 2)
        {
            printf ("%d", i);
        }
    }
}
```



```
int main()
```

```
{
```

```
    int a, b, c;
```

```
    printf("Enter the 3 numbers: \n");
```

```
    scanf("%d %d %d", &a, &b, &c);
```

```
    if (a < b && c < b)
```

```
    {
```

```
        float answer = (a + b) / 2;
```

```
        printf("Average = %f\n", answer);
```

```
    } else if (a < c)
```

```
    {
```

```
        printf("Even (b, a);
```

```
    } else if (b < c && b < a)
```

```
{
```

```
    float ans = sum(a, c);
```

```
    printf("Average = %f\n", ans);
```

```
    if (a < c)
```

```
    {
```

```
        printf("Even (a, c);
```

```
    } else
```

```
    {
```

```
        printf("Even (c, a);
```

```
}
```

use

2

float avg = sum / 2;
printf("%f\n", avg);
numbers between the 2 numbers

arr: n, avg;

if (b < c)

printf("even | b, c);
else printf("odd | c, b);

3

return 0;

3