Array elements frequency:

```
_ -
#include<stdio.h> #include<conio.h>
void main()
int a[100], b[100]={0},i,j,c,n;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements for array ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<n;i++)
c=1:
if(b[i]!=-1)
for(j=i+1;j<n;j++){if(a[i]==a[j]){c++; b[j]=-1;}
b[i]=c;
for(i=0;i<n;i++)if(b[i]!=-1)printf("%d found %d times\n",a[i],b[i]);
getch();
Enter array size 1-100 9
Enter 9 elements for array 1 2 3 4 1 2 3 6 7
1 found 2 times
2 found 2 times
3 found 2 times
4 found 1 times
6 found 1 times
7 found 1 times
△ 😼 🗓 🕪 😭 6:45 PM
```

Arrange array even elements in ascending order and odd elements in descending order:

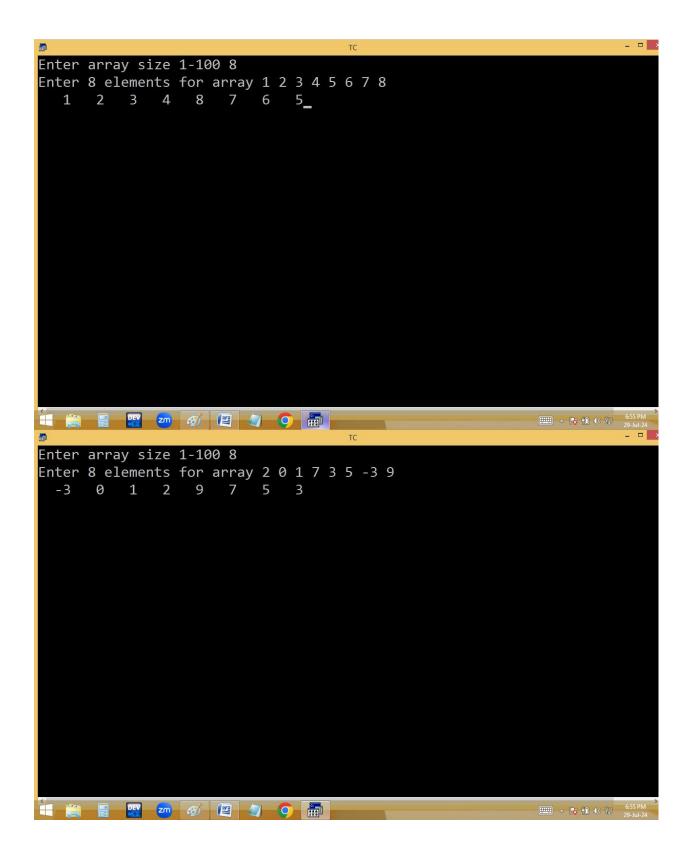
```
_ 🗆 >
  File Edit Run Compile Project Options Debug Break/watch
             Col 1 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
int a[100], b[100]={0},i,j,c,n;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements for array ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<=n-2;i++)
for(j=i+1;j<=n-1;j++){if(a[i]>a[j]){int t=a[i];a[i]=a[j];a[j]=t;}}
for(i=0;i<n;i++)if(a[i]%2==0)printf("%4d",a[i]);
for(i=n-1;i>=0;i--)if(a[i]%2!=0)printf("%4d",a[i]);
getch();
Enter array size 1-100 8
Enter 8 elements for array 3 9 10 34 11 7 4 13
  4 10 34 13 11 9 7 3
△ 🔁 🗓 🕪 😭 6:53 PM
```

```
3
for(i=0;i<6;i++)
                                             9
                                                    50
                                                                  22
                                                                               10
if(a[i]%2==0)p(a[i]); 10 22 50
                                             0
                                                    1
                                                           2
                                                                  3
                                                                        4
                                                                               5
for(i=5;i>=0;i--)
                                             3
                                                    7
                                                                          22
                                                           9
                                                                   10
                                                                                 50
if(a[i]%2!=0)p(a[i]); 9 7 3
```

10 22 50 9 7 3

Half elements in ascending and remaining in descending order:

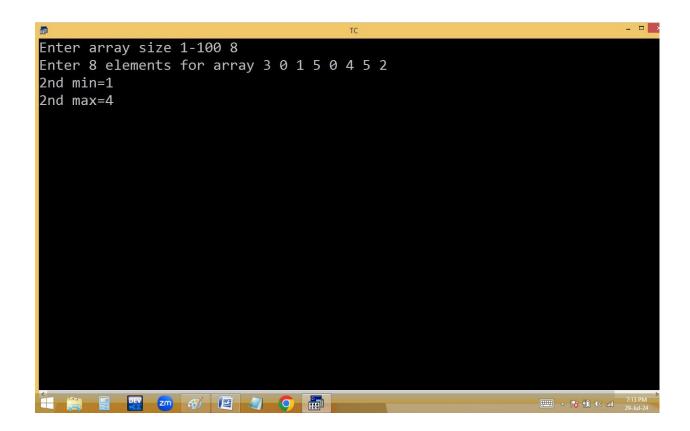
```
File Edit Run
                     Compile Project Options Debug Break/watch
     Line 14
                Col 22 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
int a[100], b[100]={0},i,j,c,n;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements for array ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);</pre>
for(i=0;i<=n-2;i++)
for(j=i+1;j<=n-1;j++){if(a[i]>a[j]){int t=a[i];a[i]=a[j];a[j]=t;}}
for(i=0;i<n/2;i++)printf("%4d",a[i]);
for(i=n-1;i>=n/2;i--)printf("%4d",a[i]);
getch();
          ■ ^ 1 (•) 1 6:5
```



```
Enter array size 1-100 7
Enter 7 elements for array 2 9 0 1 4 7 3
0 1 2 9 7 4 3
```

Finding 2nd max, 2nd min array elements of sorted array:

```
_ 🗆 🦻
  File Edit Run
                    Compile Project Options Debug Break/watch
              Col 62 Insert Indent Tab Fill Unindent * E:6PM.C
     Line 14
#include<stdio.h>
#include<conio.h>
void main()
int a[100], b[100]={0},i,j,c,n;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements for array ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<=n-2;i++)
for(j=i+1;j<=n-1;j++){if(a[i]>a[j]){int t=a[i];a[i]=a[j];a[j]=t;}}
for(i=1;i<n;i++)if(a[i]>a[0]){printf("2nd min=%d\n",a[i]);break;}
for(i=n-2;i>=0;i--)if(a[i]<a[n-1]){printf("2nd max=%d\n",a[i]);break;}
getch();
7:12 l
Enter array size 1-100 8
Enter 8 elements for array 1 1 2 4 6 7 8 8
2nd min=2
2nd max=7
         - 12 PM 29-Jul-24 29-Jul-24
```



Finding nth max, nth min array element:

```
#include<stdio.h>
#include<conio.h>

void main()
{
   int a[100], b[100]={0},i,j,max,min,n;
   clrscr();
   printf("Enter array size 1-100 ");scanf("%d",&n);
   printf("Enter %d elements for array ",n);
   for(i=0;i<n;i++)scanf("%d",&a[i]);
   printf("Enter nth min, nth max no's ");scanf("%d%d",&min,&max);
   for(i=0;i<=n-2;i++)</pre>
```

```
{
for(j=i+1;j<=n-1;j++){if(a[i]>a[j]){int t=a[i];a[i]=a[j];a[j]=t;}}
}
for(i=1;i<n;i++)
{
    if(a[i]>a[i-1])
    {min--; if(min==1){printf("nth min=%d\n",a[i]);break;}}
}
for(i=n-2;i>=0;i--)
{
    if(a[i]<a[i+1]){max--; if(max==1){printf("nth Max=%d",a[i]);break;}}
}
getch();
}</pre>
```

