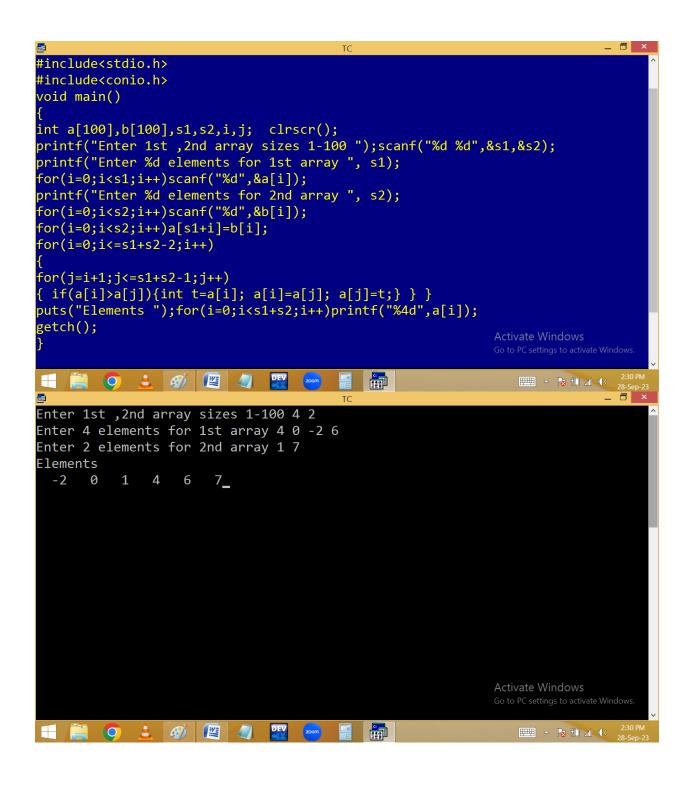
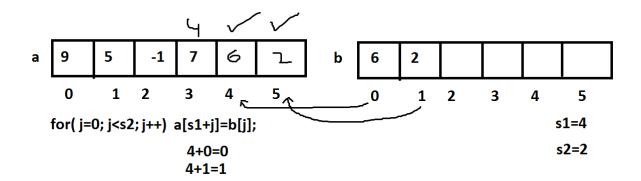
Merging of array elements:





Eg. arrange the array even elements in ascending order and odd elements in descending order.

```
File Edit
                    Compile Project Options
               Run
                                               Debug Break/watch
                      Insert Indent Tab Fill Unindent * E:2PM.C
     Line 13
               Col 1
#include<stdio.h>
#include<conio.h>
void main()
int a[100],n,i,j,t; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements ", 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();
                                                     Activate Windows
____ ^ \
Enter array size 1-100 9
Enter 9 elements 4 0 1 -5 4 8 7 3 6
         4 6 8 7 3 1 -5_
                                                     Activate Windows
                                                       Show hidden icons
```

Finding 2nd max, 2nd min array elements:

```
File Edit
               Run
                    Compile
                             Project
                                      Options
                                               Debug Break/watch
               Col 36 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 3
#include<stdio.h>
#include<conio.h>
void main()
int a[100],n,i,j,t; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements ", 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++)printf("%4d",a[i]);
for(i=1;i< n;i++) if(a[i]>a[0]){printf("\n2nd min=%d\n",a[i]);break;}
for(i=n-2;i>=0;i--)if(a[i]<a[n-1]){printf("2nd max=%d",a[i]);break;}
Activate Windows
getch();
____ ^ 1 1 ()
Enter array size 1-100 9
Enter 9 elements 201027657
  0 0 1 2 2 5 6 7 7
2nd min=1
2nd max=6_
                                                     Activate Windows
```

Find the nth max, nth min elements:

#include<stdio.h>

#include<conio.h>

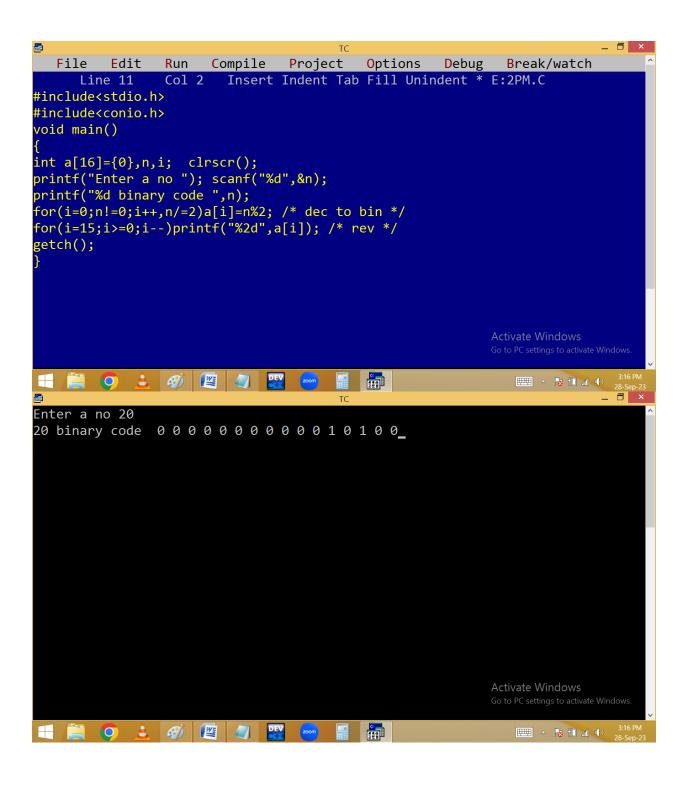
```
void main()
int a[100],n,i,j,t,min, max; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements ", n);
for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<=n-2;i++)
for(j=i+1;j<=n-1;j++)
{ if(a[i]>a[j]){int t=a[i]; a[i]=a[j]; a[j]=t;} } }
for(i=0;i<n;i++)printf("%4d",a[i]);</pre>
printf("\nEnter nth min, nth max values
");scanf("%d%d",&min,&max);
printf("%d min=",min);
for(i=1;i<n;i++) {if(a[i]>a[i-1])min--;
if(min==1){printf("%d\n",a[i]);break;}
```

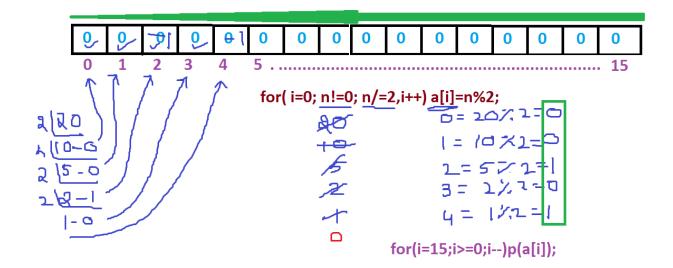
```
printf("%d max=",max);
for(i=n-2;i>=0;i--)
if(a[i]<a[i+1])max--;if(max==1){printf("%d",a[i]);break;}
getch();
                                                    _ 🗇 ×
Enter array size 1-100 8
3 4
            5 6 7 8
Enter nth min, nth max values 3 4
3 min=3
4 max=5_
```

Activate Windows

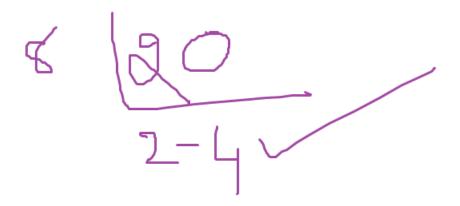
3:04 F

Decimal to binary conversion:



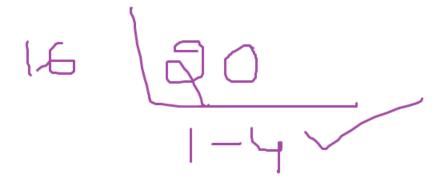


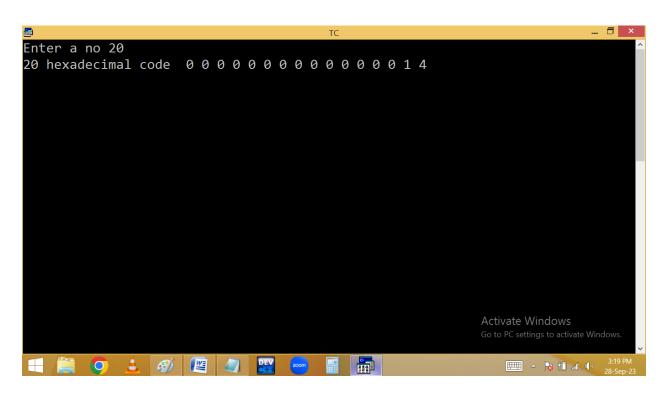
Decimal to Octal conversion:

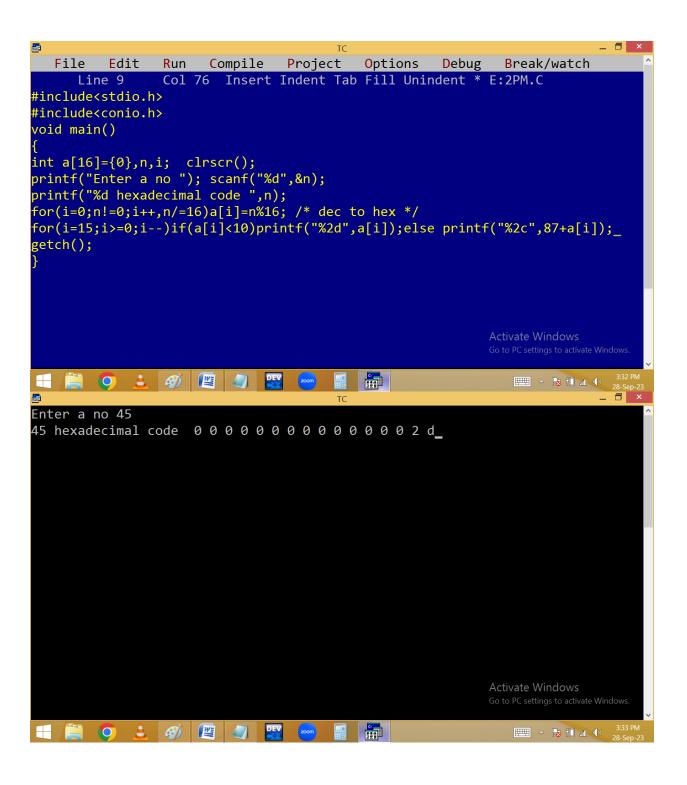


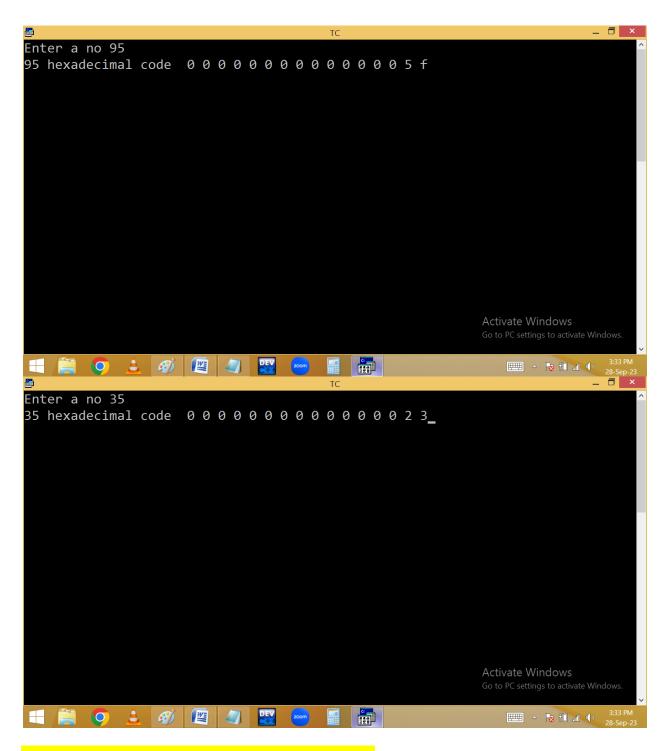
```
Debug Break/watch
  File Edit
                Compile Project
            Run
                              Options
            Col 46 Insert Indent Tab Fill Unindent * E:2PM.C
    Line 8
#include<stdio.h>
#include<conio.h>
void main()
int a[16]={0},n,i; clrscr();
printf("Enter a no "); scanf("%d",&n);
printf("%d octal code ",n);
for(i=0;n!=0;i++,n/=8)a[i]=n%8; /* dec to oct */
getch();
                                          Activate Windows
3:18 P
                                                    _ 🗇 ×
Enter a no 20
Activate Windows
△ 🔀 🗓 🖟 3:18 F
```

Decimal to hexadecimal:









Flip / twisting of array elements:

