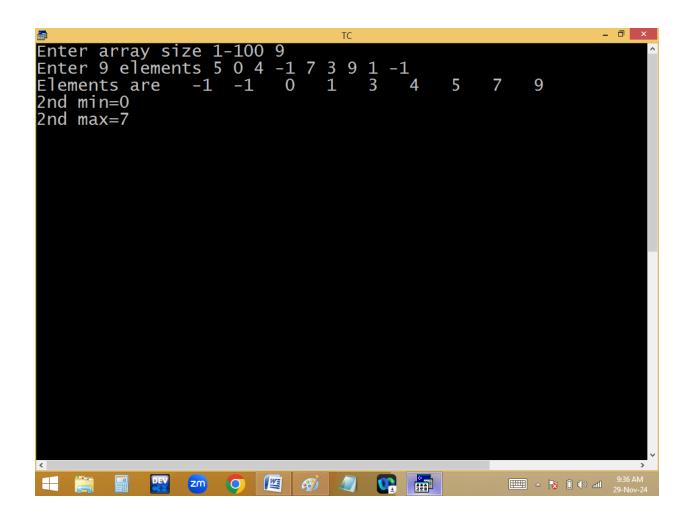
Finding 2nd max, 2nd min elements of array:

```
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    File Edit Run
                              Compile
                                           Project Options
                                                                     Debug
                      Col 19 Insert Indent Tab Fill Unindent *
#include<stdio.h> #include<conio.h>
void main()
int a[100],i,n,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]);</pre>
for(i=0;i<=n-2;i++)
for(j=0;j<=n-i-2;j++)
if(a[j]>a[j+1]){t=a[j];a[j]=a[j+1];a[j+1]=t;}
printf("Elements are ");
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; \}
getch();
                            zm
```

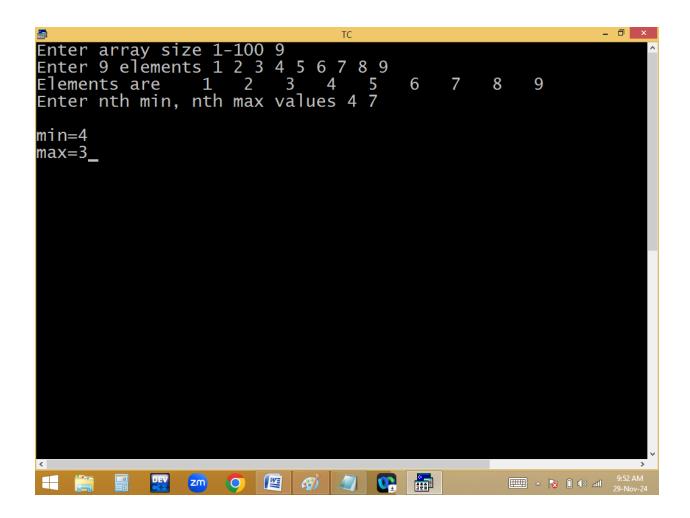


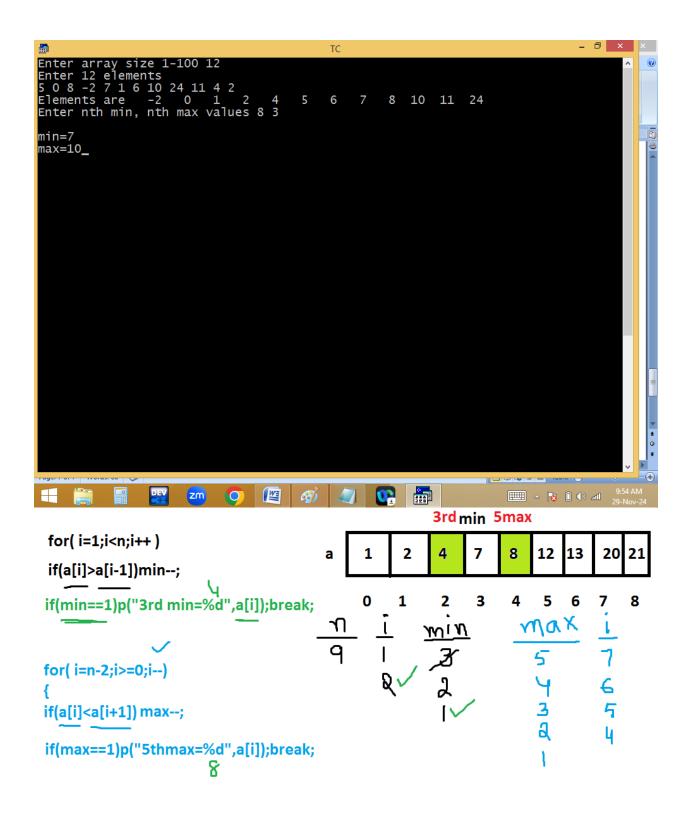
```
_ 🗇 ×
Enter array size 1-100 7
Enter 7 elements 2 0 1 5 0 6 6
Elements are 0 0 1 2
2nd min=1
                                                   5
                                                         6
                                                                6
2nd max=5
                                                                        9:36 AM
                       zm
   for( i=1; i<5;i++ )
   if( a[i]>a[0])p("2nd
   min=%d",a[i]);break;
   }
                                                                                           8
                                                               1
   for( i=n-2; i>=0; i-- )
                                                                      1
                                                                              2
                                                                                            4
   if(a[i]<a[n-1])p(2nd max=a[i]);break;</pre>
                                                               0
                                                                                     3
```

Find the nth max, nth min array elements.

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],i,n,j,t,max, min; 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=0;j<=n-i-2;j++)
{
if(a[j]>a[j+1]){t=a[j];a[j]=a[j+1];a[j+1]=t;}
}
}
printf("Elements are ");
for(i=0;i<n;i++)printf("%4d",a[i]);
```

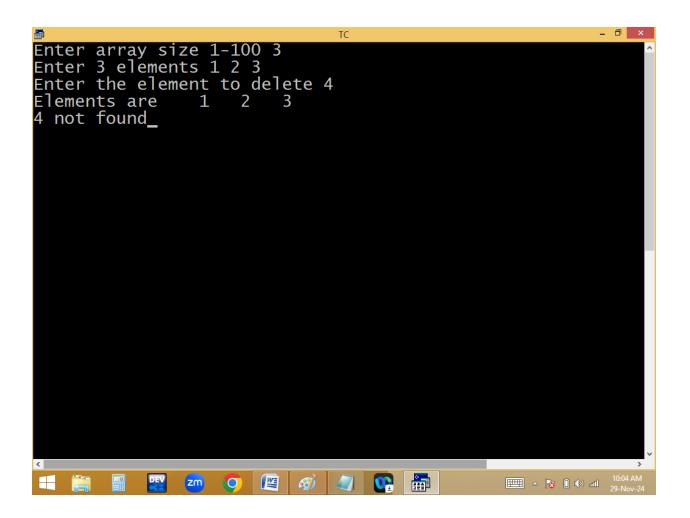
```
printf("\nEnter nth min, nth max values ");
scanf("%d%d",&min,&max);
for(i=1;i<n;i++)
{if(a[i]>a[i-1])
{min--;if(min==1){printf("\nmin=%d\n",a[i]);break;}}}
for(i=n-2;i>=0;i--)
{if(a[i]<a[i+1])
{max--;if(max==1){printf("max=%d",a[i]);break;}}}
getch();
}</pre>
```

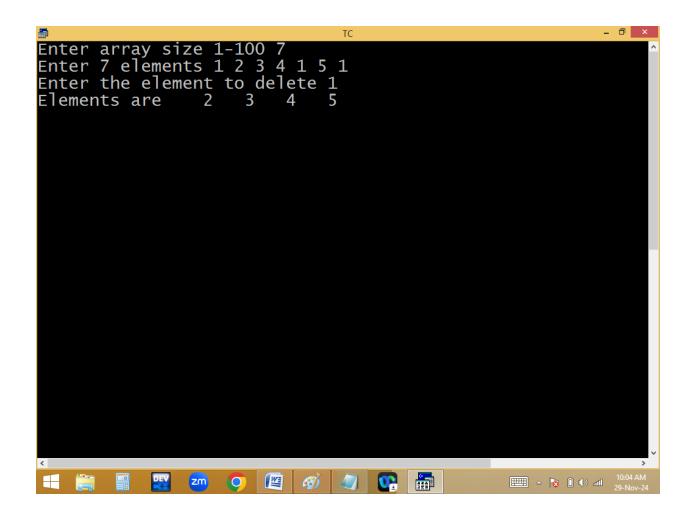




Deleting array element:

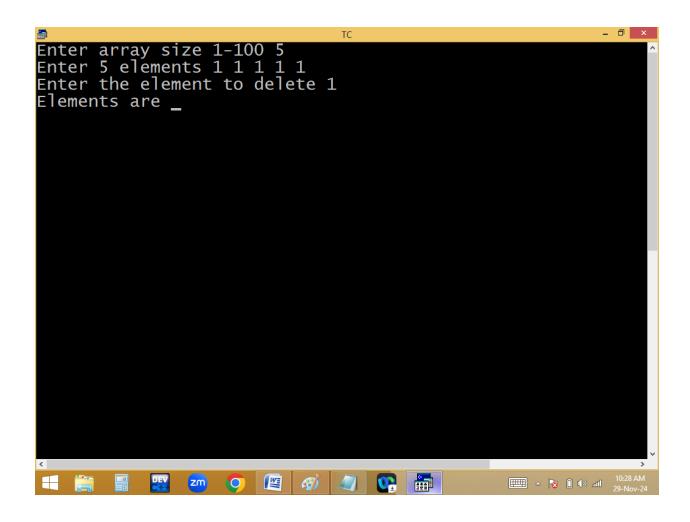
1. Skipping

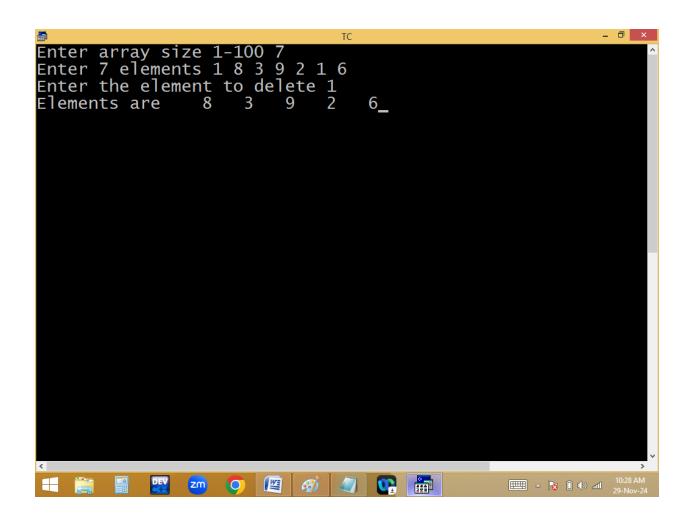


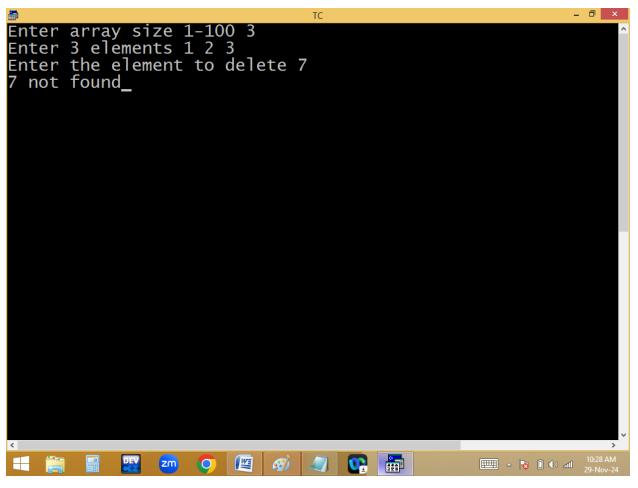


2. Permanent deletion [left shifting or array elements [pop]:

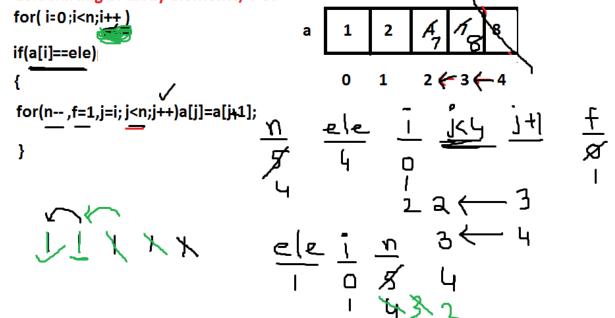
```
_ 🗇 ×
                                    Compile
   File Edit Run
                                                  Project Options
                                                                                  Debug
                          Col 19 Insert Indent Tab Fill Unindent * E
         Line 1
#include<stdio.h> #include<conio.h>
void main()
int a[100],i,n,ele,f=0,j; 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]);
printf("Enter the element to delete ");
scanf("%d",&ele);
for(i=0;i<n;i++)
if(a[i]==ele)
 for(n--,f=1,j=i;j<n;j++)a[j]=a[j+1];i--;
if(f==0)printf("%d not found",ele);
else{
printf("Elements are ");
for(i=0;i<n;i++)printf("%4d",a[i]);
}getch();</pre>
                                                                       □□□□ △ 😼 🗓 (♠) and 10:28 AN
                       zm
```





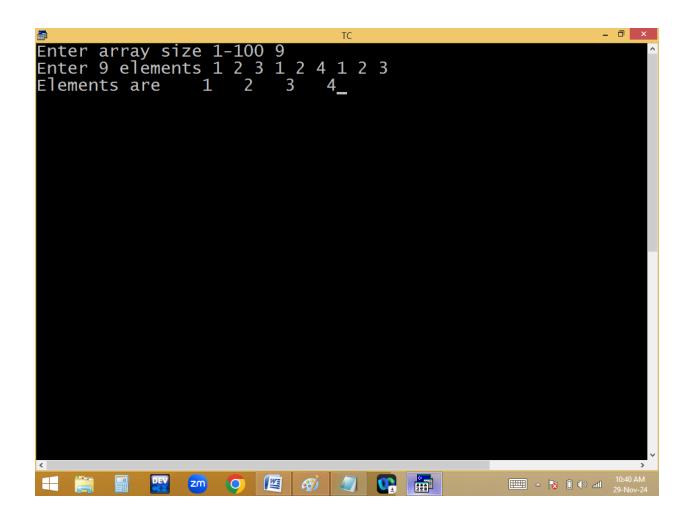


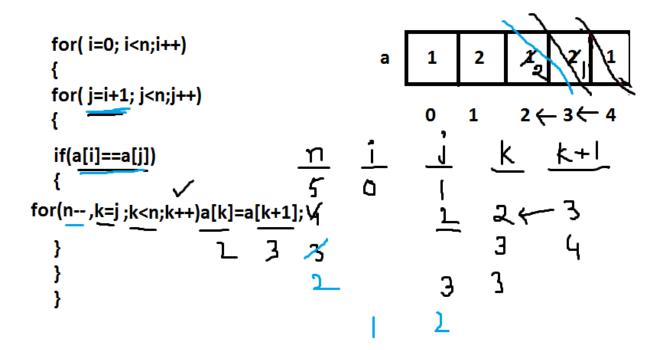
Left shifting of array elements/ POP



Deleting duplicate elements from array:

```
_ 🗇 ×
                        Run Compile
    File Edit
                                             Project Options
                                                                           Debug
        Line 1
                        Col 13 Insert Indent Tab Fill Unindent *
#include<stdio.h>
#include<conio.h>
void main()
int a[100],i,j,k,n; 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;i++)</pre>
for(j=i+1;j<n;j++)
if(a[i]==a[j])
for(n--,k=j;k<n;k++)a[k]=a[k+1];j--;
printf("Elements are ");
for(i=0;i<n;i++)printf("%4d",a[i]);</pre>
getch();
                                                                10:40 Al
                    zm
```





Merging of arrays:

