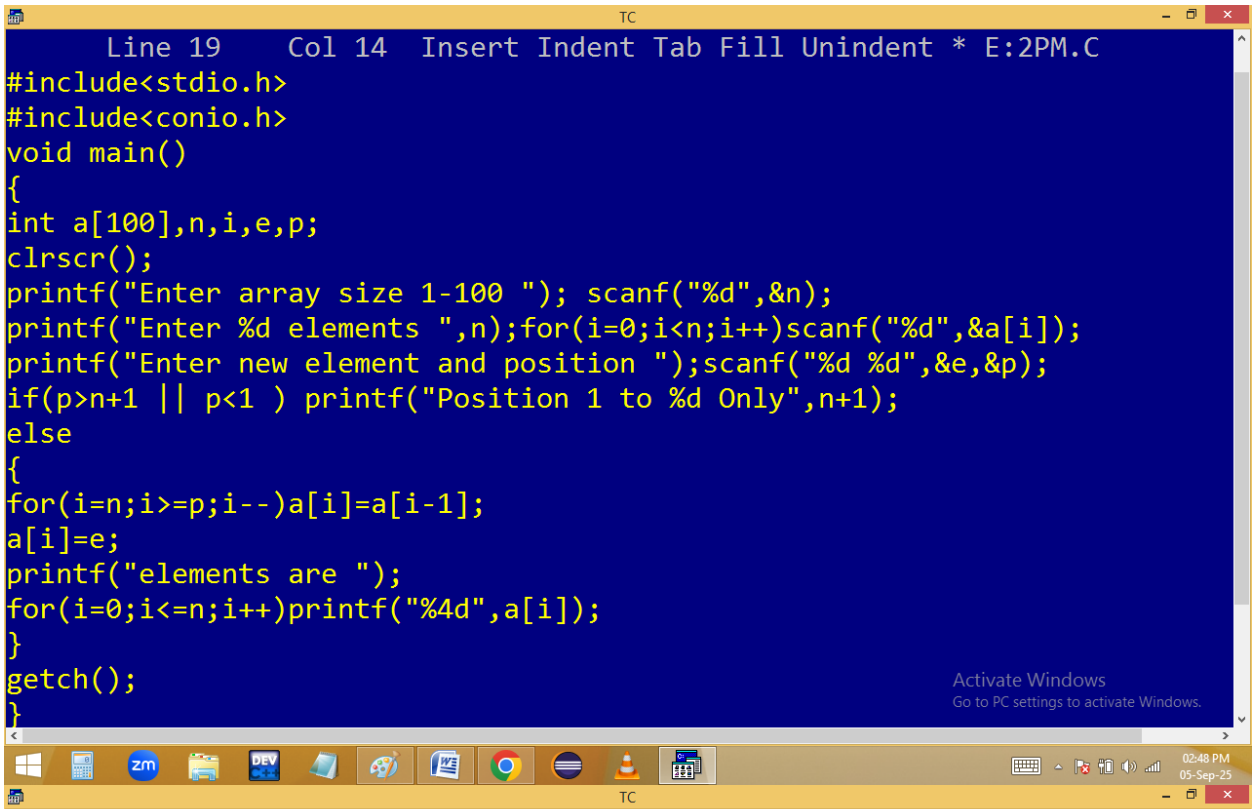
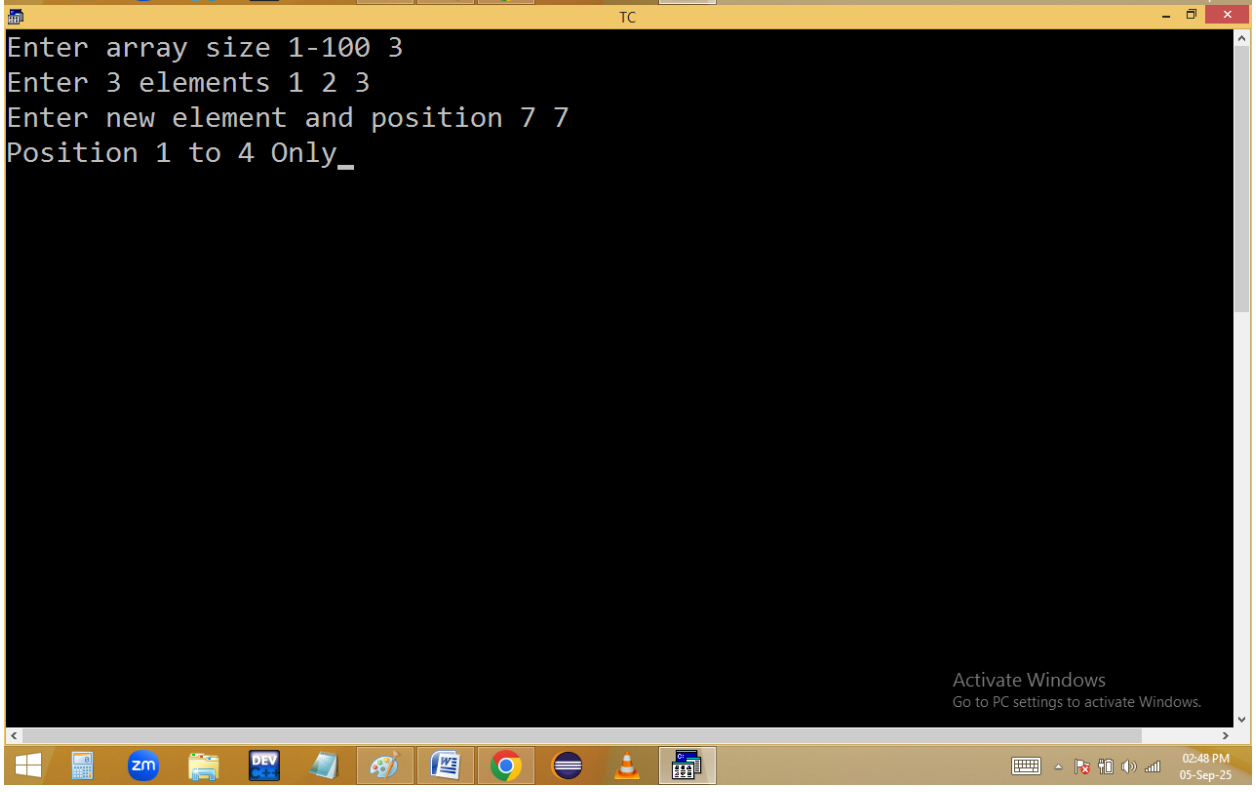
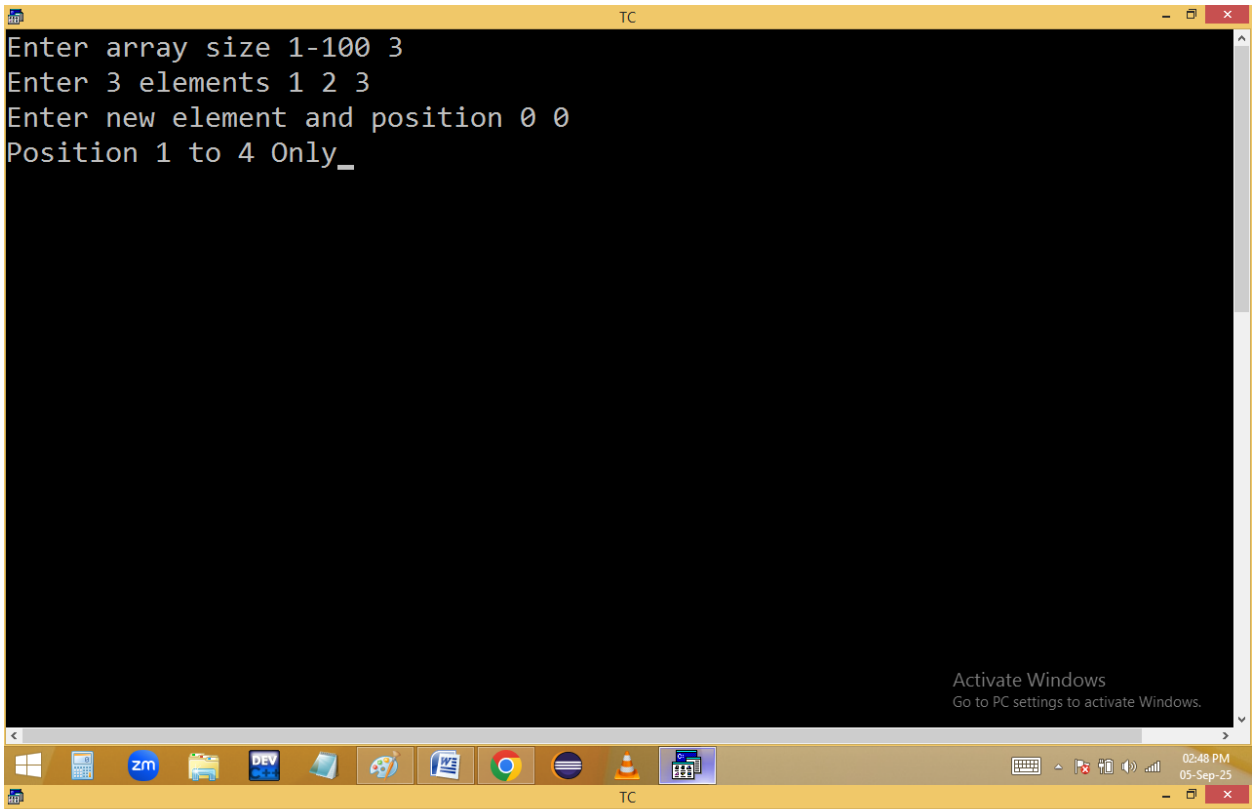
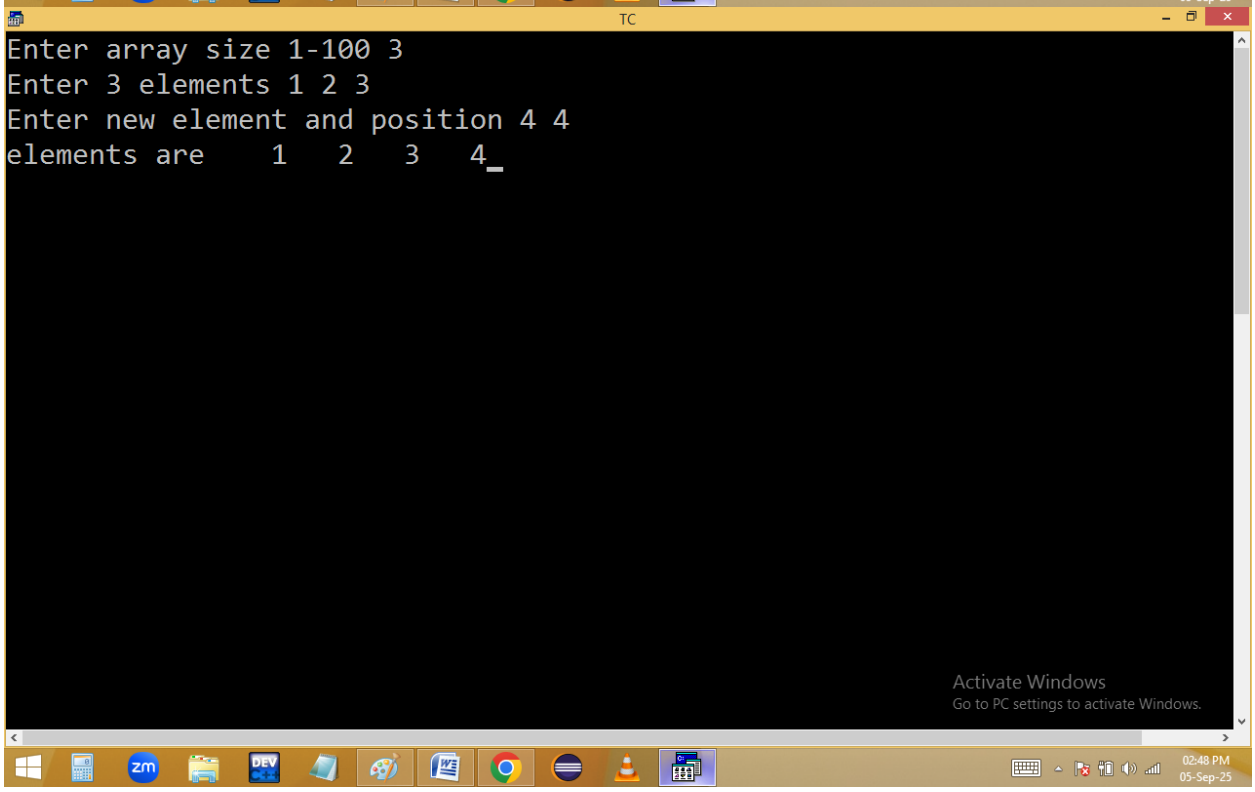
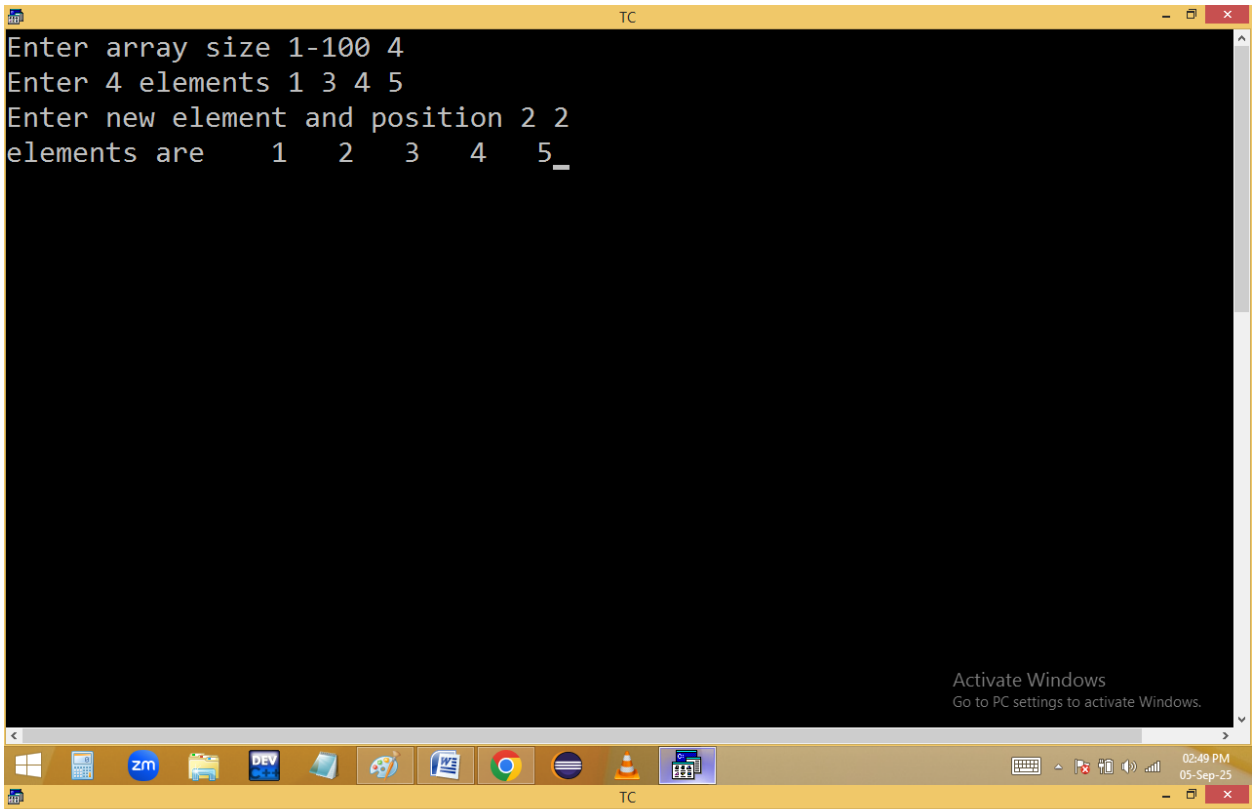
Inserting a new element in specified position of array/right shifting of array / PUSH:

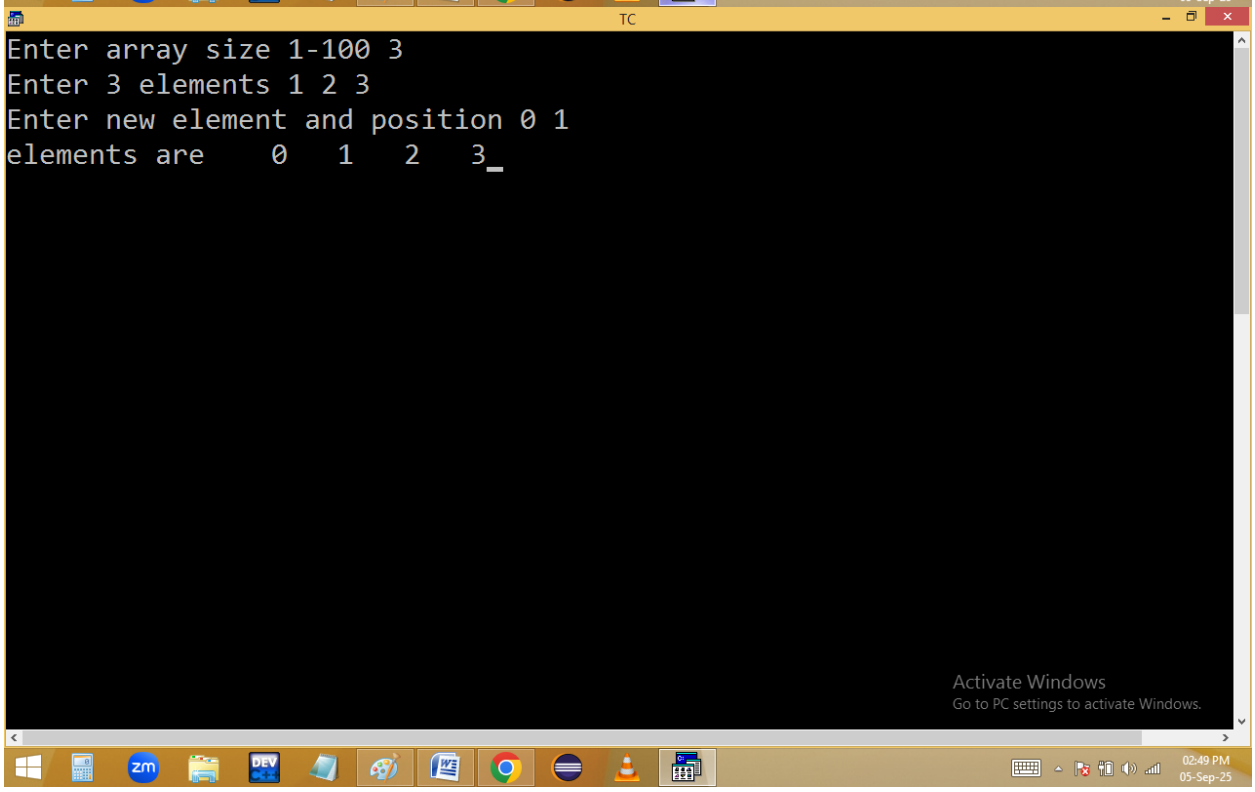

TC
Line 19 Col 14 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,e,p;
clrscr();
printf("Enter array size 1-100 "); scanf("%d",&n);
printf("Enter %d elements ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
printf("Enter new element and position ");scanf("%d %d",&e,&p);
if(p>n+1 || p<1) printf("Position 1 to %d Only",n+1);
else
{
for(i=n;i>=p;i--)a[i]=a[i-1];
a[i]=e;
printf("elements are ");
for(i=0;i<=n;i++)printf("%4d",a[i]);
}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
02:48 PM
05-Sep-25

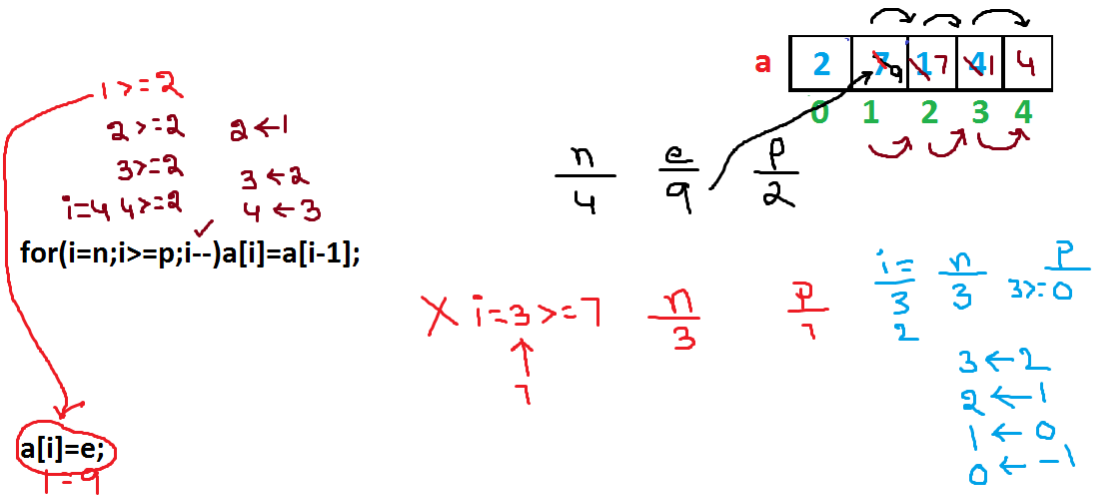

TC
Enter array size 1-100 3
Enter 3 elements 1 2 3
Enter new element and position 7 7
Position 1 to 4 Only
Activate Windows
Go to PC settings to activate Windows.
02:48 PM
05-Sep-25


TC
Enter array size 1-100 3
Enter 3 elements 1 2 3
Enter new element and position 0 0
Position 1 to 4 Only
Activate Windows
Go to PC settings to activate Windows.
02:48 PM
05-Sep-25

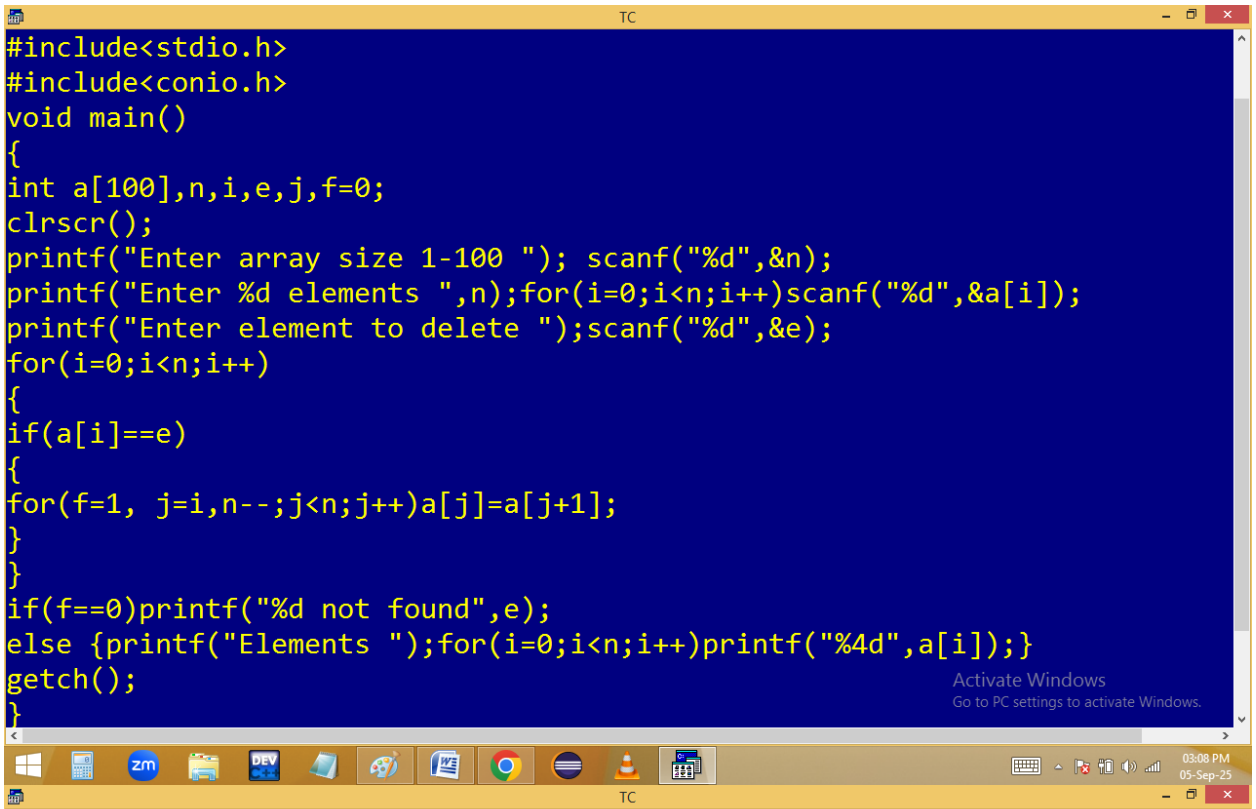

TC
Enter array size 1-100 3
Enter 3 elements 1 2 3
Enter new element and position 4 4
elements are 1 2 3 4
Activate Windows
Go to PC settings to activate Windows.
02:48 PM
05-Sep-25

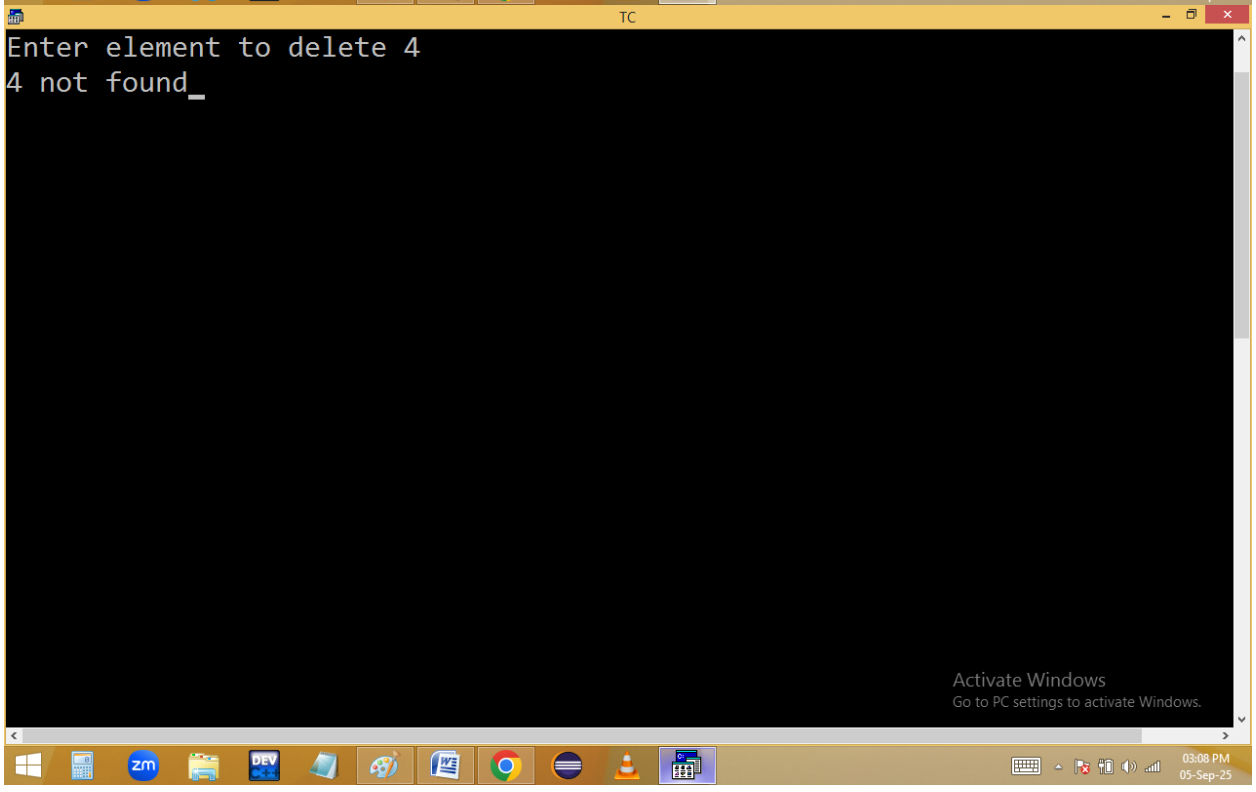

TC
Enter array size 1-100 4
Enter 4 elements 1 3 4 5
Enter new element and position 2 2
elements are 1 2 3 4 5
Activate Windows
Go to PC settings to activate Windows.
02:49 PM
05-Sep-25

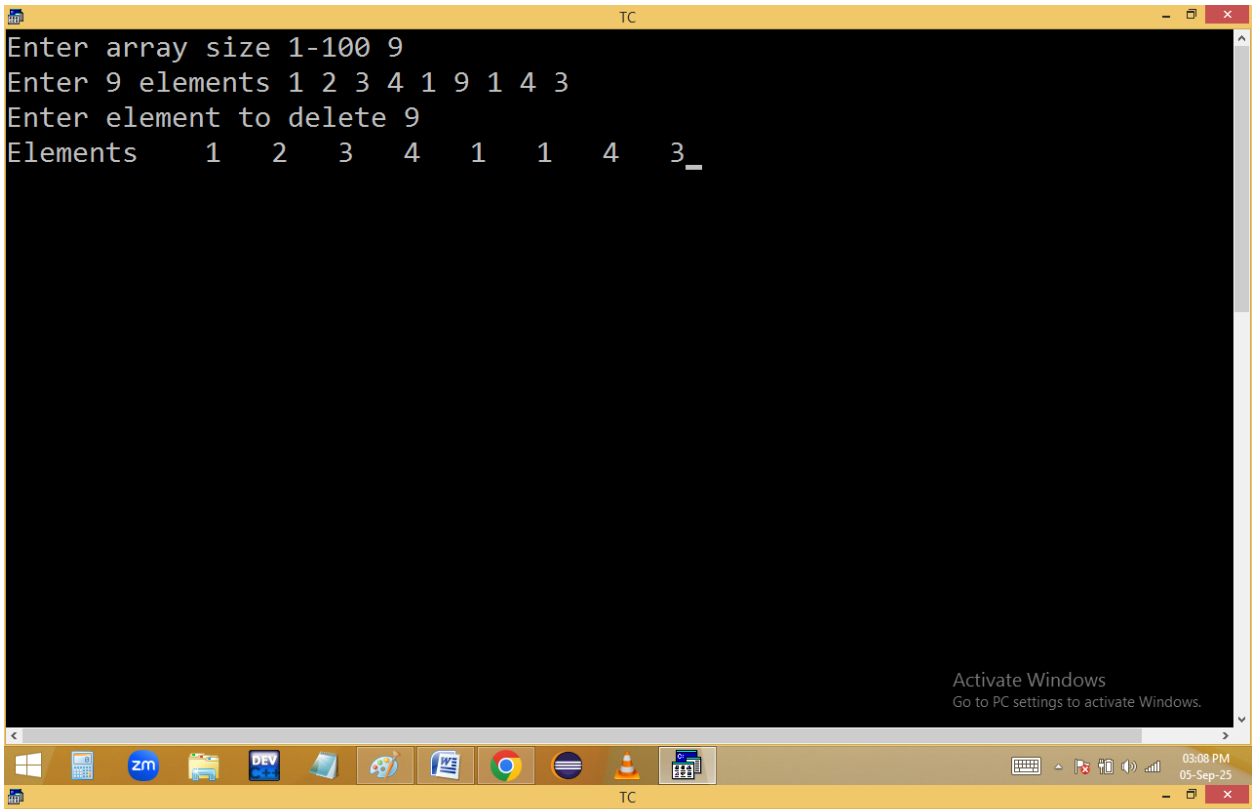

TC
Enter array size 1-100 3
Enter 3 elements 1 2 3
Enter new element and position 0 1
elements are 0 1 2 3
Activate Windows
Go to PC settings to activate Windows.
02:49 PM
05-Sep-25

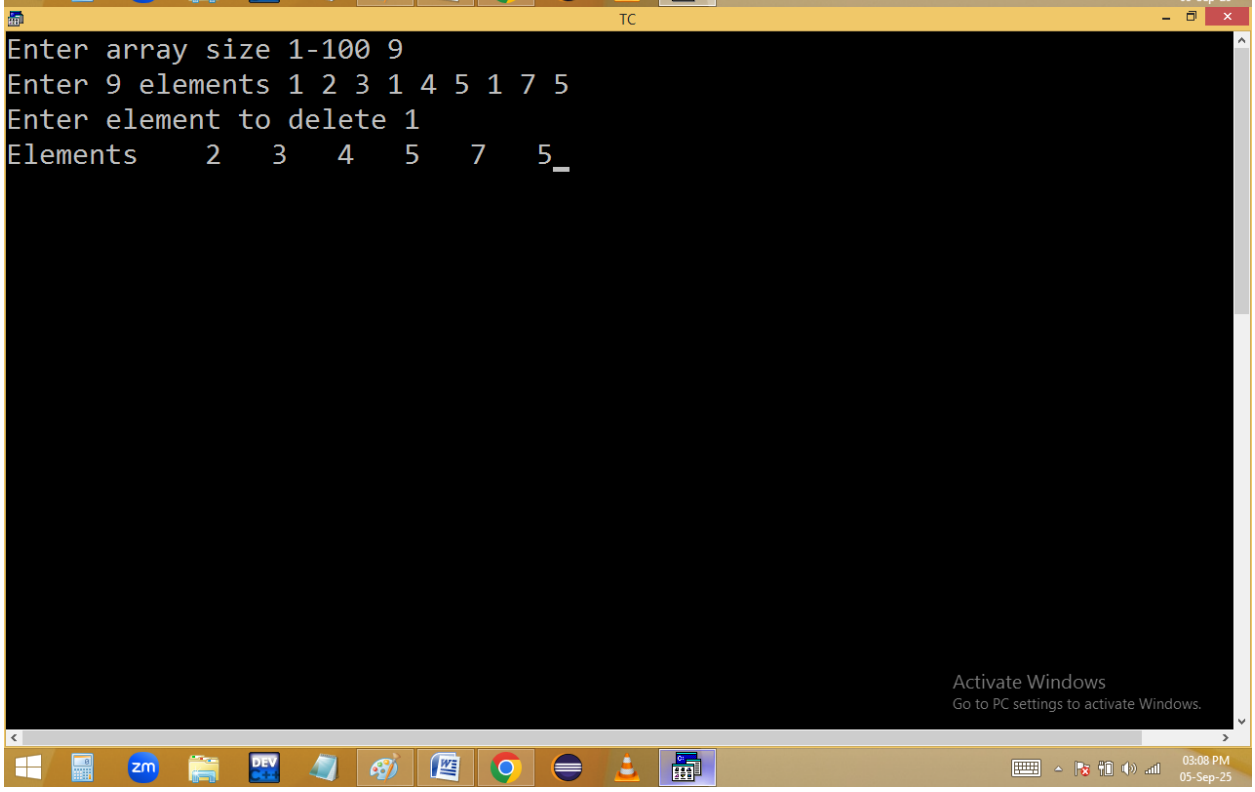


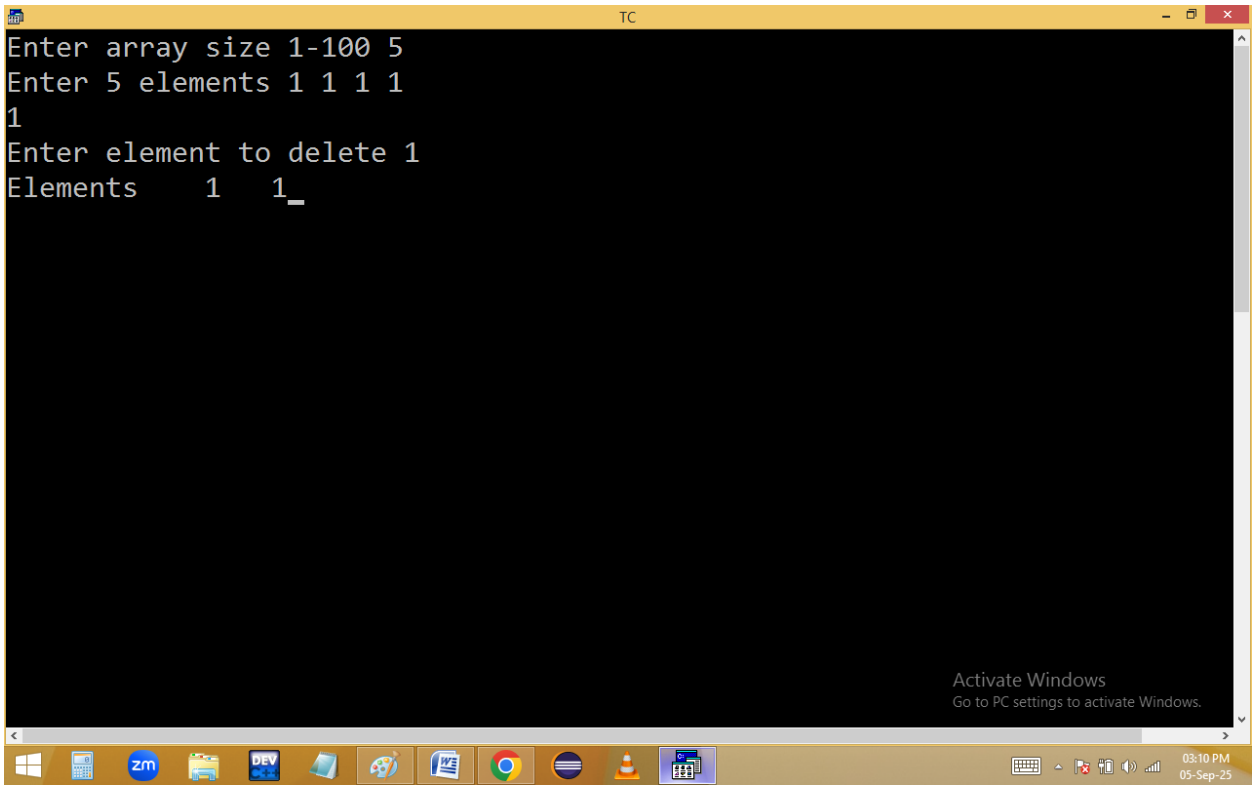
Deleting a particular element from array / left shifting or array elements / POP:

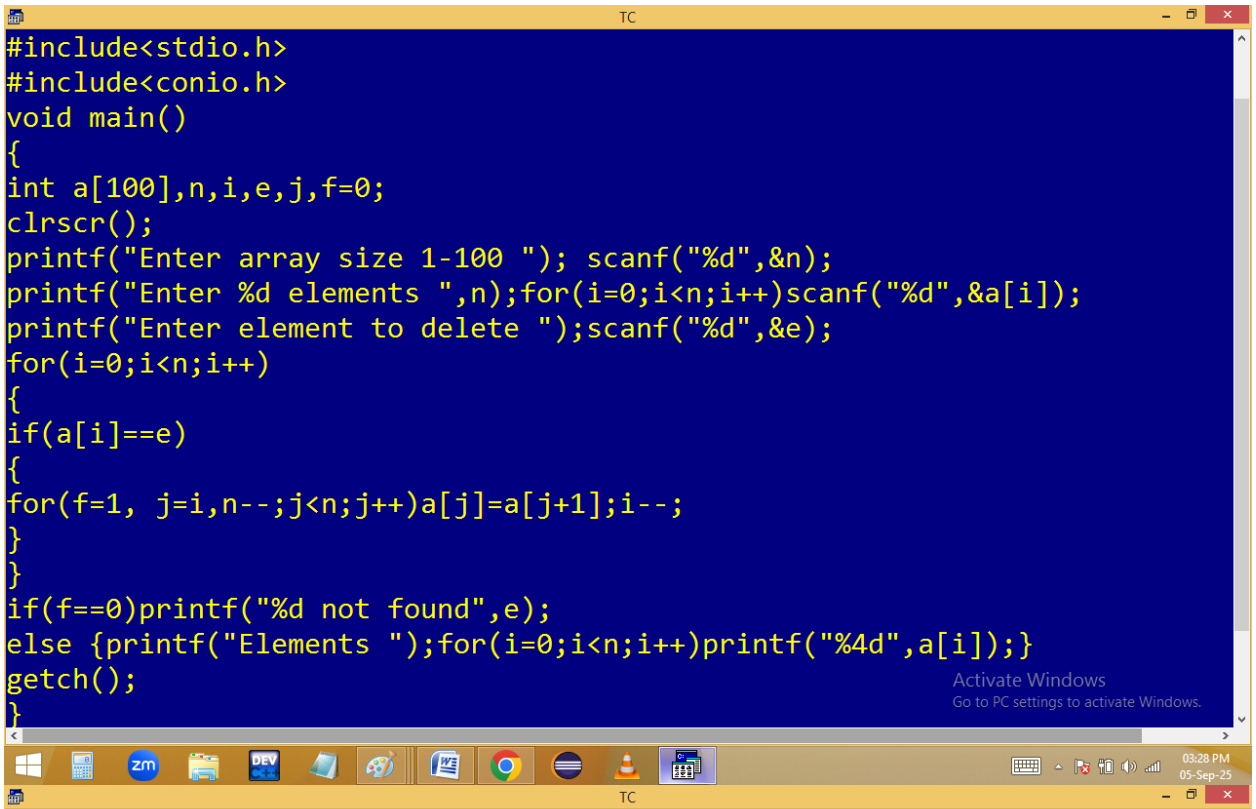

TC
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,e,j,f=0;
clrscr();
printf("Enter array size 1-100 "); scanf("%d",&n);
printf("Enter %d elements ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
printf("Enter element to delete ");scanf("%d",&e);
for(i=0;i<n;i++)
{
if(a[i]==e)
{
for(f=1, j=i,n--;j<n;j++)a[j]=a[j+1];
}
}
if(f==0)printf("%d not found",e);
else {printf("Elements ");for(i=0;i<n;i++)printf("%4d",a[i]);}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
03:08 PM
05-Sep-25

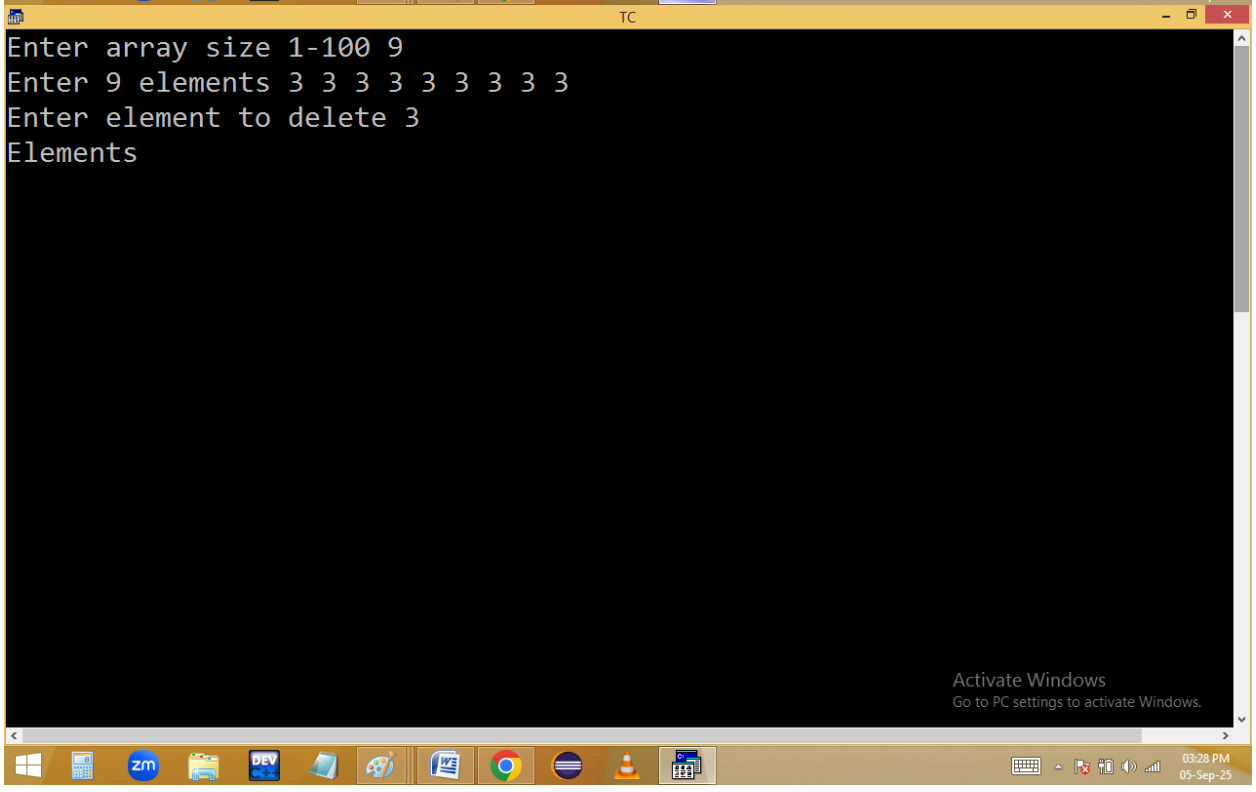

TC
Enter element to delete 4
4 not found
Activate Windows
Go to PC settings to activate Windows.
03:08 PM
05-Sep-25


TC
Enter array size 1-100 9
Enter 9 elements 1 2 3 4 1 9 1 4 3
Enter element to delete 9
Elements 1 2 3 4 1 1 4 3
Activate Windows
Go to PC settings to activate Windows.
03:08 PM
05-Sep-25


TC
Enter array size 1-100 9
Enter 9 elements 1 2 3 1 4 5 1 7 5
Enter element to delete 1
Elements 2 3 4 5 7 5
Activate Windows
Go to PC settings to activate Windows.
03:08 PM
05-Sep-25


TC
Enter array size 1-100 5
Enter 5 elements 1 1 1 1
1
Enter element to delete 1
Elements 1 1
Activate Windows
Go to PC settings to activate Windows.
03:10 PM
05-Sep-25


TC
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,e,j,f=0;
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 element to delete ");scanf("%d",&e);
for(i=0;i<n;i++)
{
if(a[i]==e)
{
for(f=1, j=i,n--;j<n;j++)a[j]=a[j+1];i--;
}
}
if(f==0)printf("%d not found",e);
else {printf("Elements ");for(i=0;i<n;i++)printf("%4d",a[i]);}
getch();
}
Activate Windows
Go to PC settings to activate Windows.
03:28 PM
05-Sep-25


TC
Enter array size 1-100 9
Enter 9 elements 3 3 3 3 3 3 3 3 3
Enter element to delete 3
Elements
Activate Windows
Go to PC settings to activate Windows.
03:28 PM
05-Sep-25

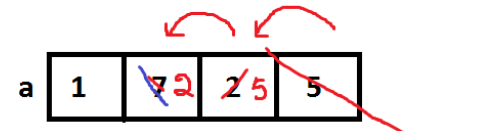
```
for(i=0;i<n;i++)
{
if(a[i]==e)

{
for(int j=i, n--;j<n;j++)a[j]=a[j+1];
}
}
```

0 1 2 3 4

i: 0

n: 5 4 3 2 1

1 ⇐ 2
2 ⇐ 3
3 < 3



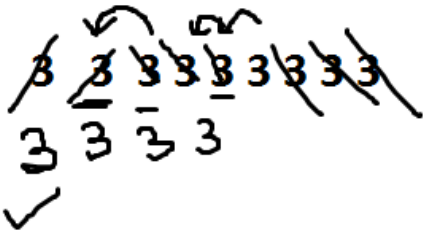
n: 4 i: 0 a: 7

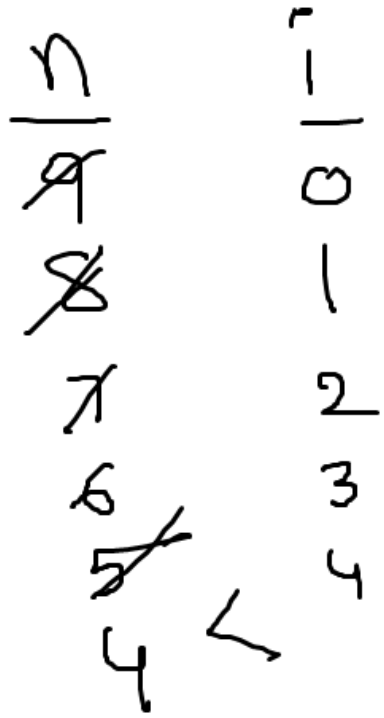
j: 1 ← 1 ✓
3
2

```
for(i=0;i<n;i++)
```

n: 5 4 3 2

i: 0 1 2 3





Deleting duplicate elements from array: