

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

```
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();
}
```

Enter array size 1-100 3
Enter 3 elements 1 2 3
Enter new element and position 7 7
Position 1 to 4 Only_

```
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
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```

```
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_

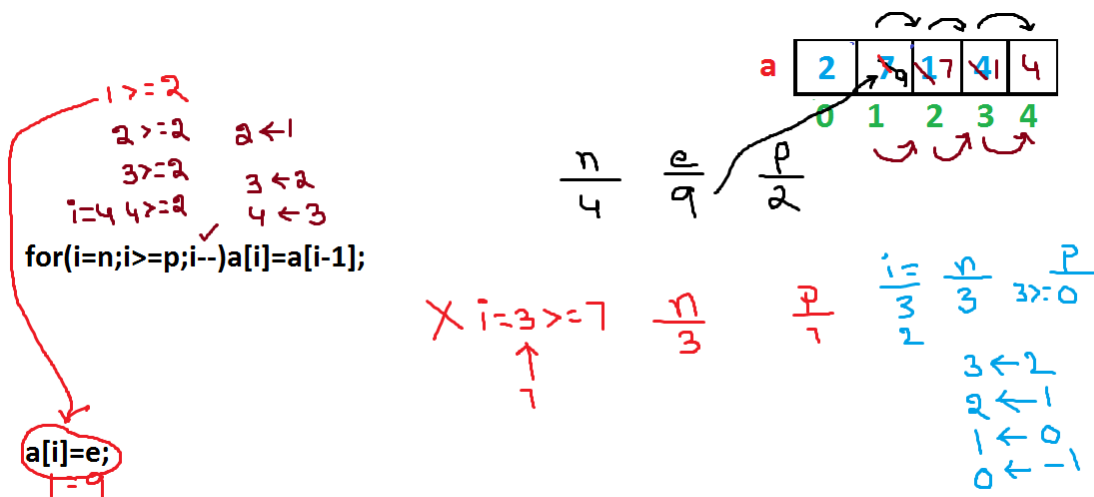
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```
TC
Enter array size 1-100 4
Enter 4 elements 1 3 4 5
Enter new element and position 2 2
elements are    1    2    3    4    5_

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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
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```



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();
}
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```

Enter element to delete 4
4 not found_

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```
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_

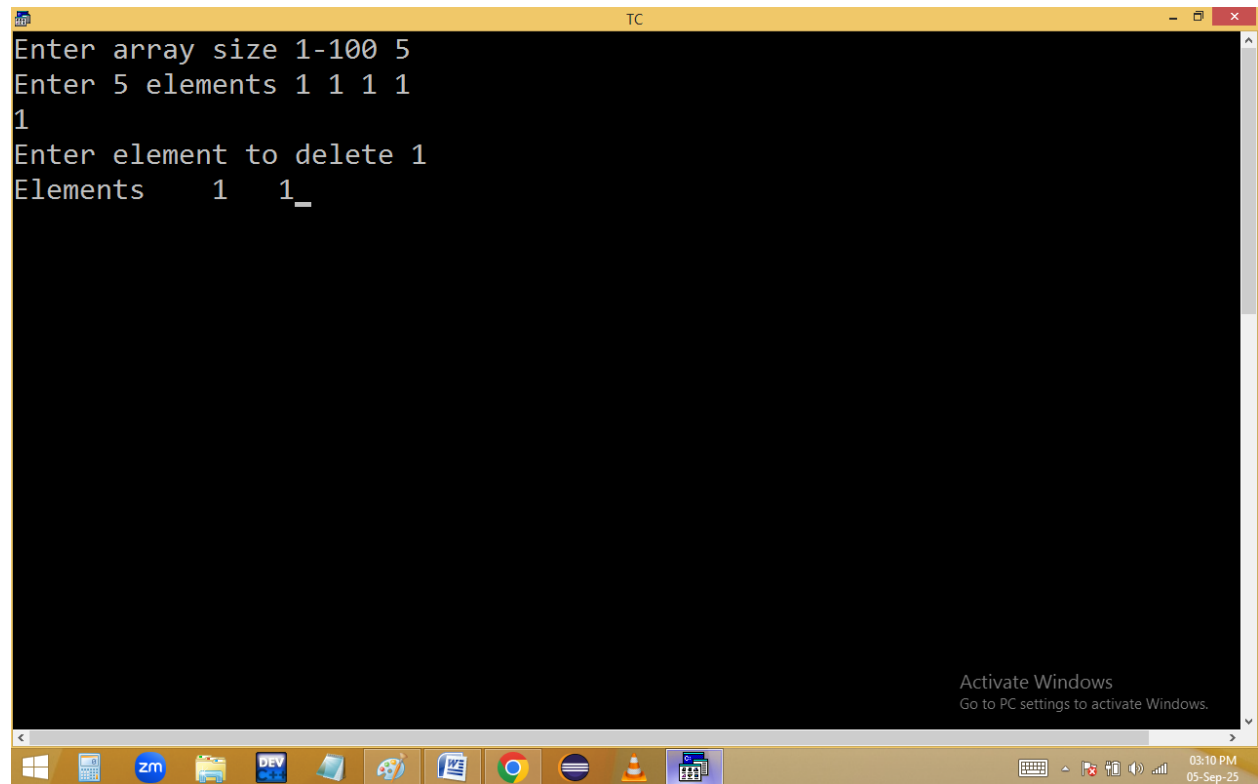
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```

```
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_

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```

```
TC
Enter array size 1-100 5
Enter 5 elements 1 1 1 1
1
Enter element to delete 1
Elements    1    1_

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```



The screenshot shows a Windows 10 desktop environment. A terminal window titled "TC" is open, displaying the following text: "Enter array size 1-100 5", "Enter 5 elements 1 1 1 1", "1", "Enter element to delete 1", and "Elements 1 1_". The taskbar at the bottom contains icons for the Start menu, File Explorer, Zoom, DEV, a folder, Paint, Word, Chrome, a globe icon, VLC, and a task manager icon. The system tray on the right shows the keyboard icon, network status, volume, and the date/time "03:10 PM 05-Sep-25". A watermark "Activate Windows Go to PC settings to activate Windows." is visible in the bottom right corner of the terminal window.


```
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();
}
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```

```
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

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```

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

1
2
3

a

1	2	5	5
0	1	2	3

n
4
i
0
2
7

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

a

3	3	3	3	3
0	1	2	3	4

n
4
3
3
3

i
0
1
2
3

~~8~~ ~~8~~ ~~8~~ ~~8~~ ~~8~~ ~~3~~ ~~3~~ ~~3~~
 3 3 3 3
 ✓

n	i
9	0
8	1
7	2
6	3
5	4
4	

Deleting duplicate elements from array: