

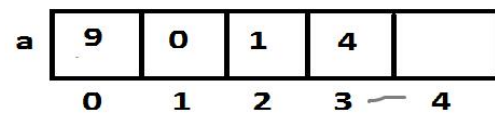
Deleting array element:

Skipping element:

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 17 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,ele,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",&ele);
puts("ELEMENTS ");
for(i=0; i<n;i++ )if(a[i]!=ele)printf("%4d",a[i]);else f=1;
if(f==0) printf("\n%d not found",ele);
getch();
}
```

```
TC
Enter array size 1-100 3
Enter 3 elements 1 2 3
Enter Element to delete 4
ELEMENTS
   1   2   3
4 not found_
```

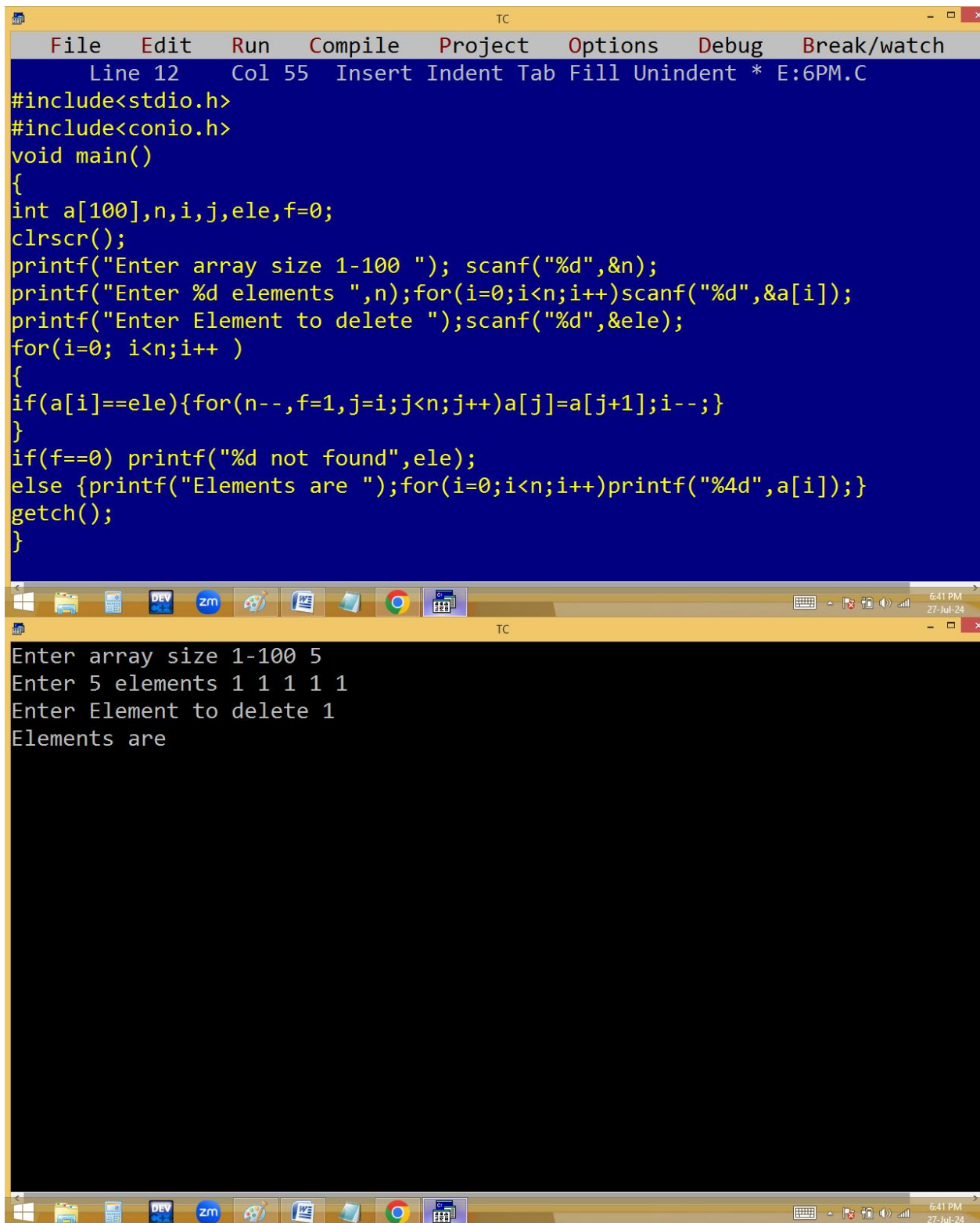
```
TC
Enter array size 1-100 9
Enter 9 elements 1 2 3 1 2 3 1 2 3
Enter Element to delete 3
ELEMENTS
1 2 1 2 1 2
```



n	ele
4	o

```
for(i=0;i<n;i++)
if(a[i]!=ele)p(a[i]); 9 1 4
```

Permanent deletion [pop] left shifting of array elements:



```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 12 Col 55 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,j,ele,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",&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();
}
```

TC

Enter array size 1-100 5
Enter 5 elements 1 1 1 1 1
Enter Element to delete 1
Elements are

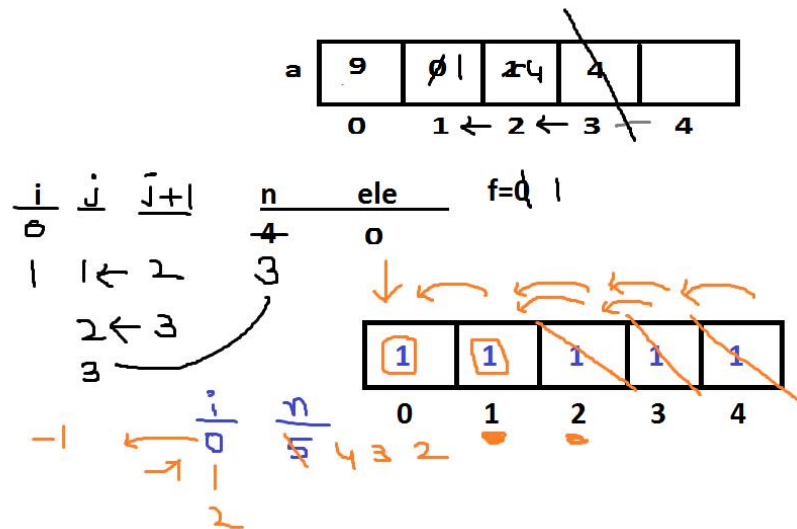
```
TC
Enter array size 1-100 5
Enter 5 elements 1 2 1 3 1
Enter Element to delete 1
Elements are      2      3
```

```
TC
Enter array size 1-100 3
Enter 3 elements 1 2 3
Enter Element to delete 4
4 not found
```

```

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--;
    }
    p("elements");
    for(i=0; i<n; i++) p(a[i]);
  }
}

```



Deleting duplicate elements from array:

1 2 3 1 2 3 → 1 2 3

```
TC
File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 52 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,j,k;
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++ )
{
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]);
getch();
}

Enter array size 1-100 9
Enter 9 elements 1 2 3 1 2 3 1 2 3
Elements are 1 2 3_

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```

```

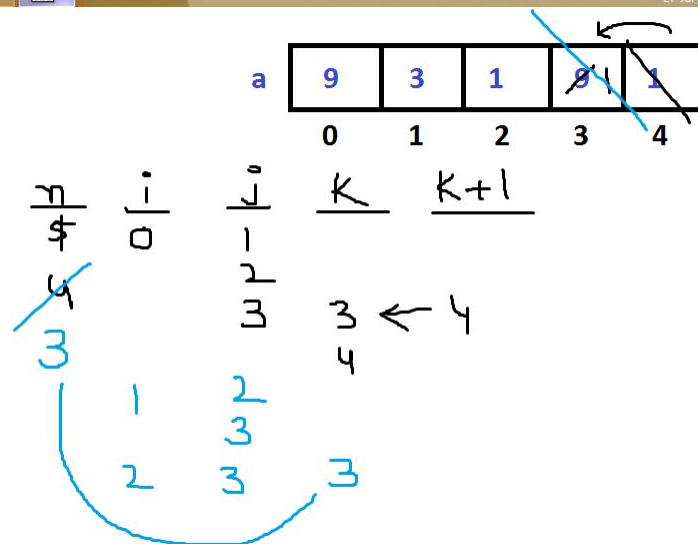
Enter array size 1-100 5
Enter 5 elements 1 1 1 1 1
Elements are 1_

```

```

for( i=0; i<n; i++ )
{
  for( j=i+1; j<n; j++ )
  {
    if(a[i]==a[j])
    {
      for( k=j, n--; k<n; k++) a[k]=a[k+1];
    }
  }
}

```



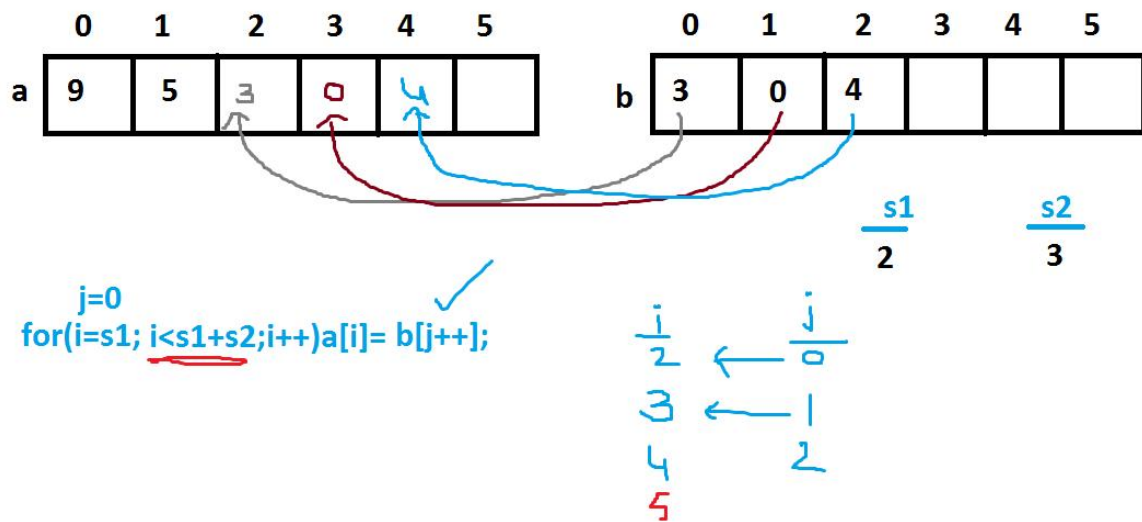
Merging of array elements:


```
TC
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100], b[100],s1, s2,i,j;
clrscr();
printf("Enter first and second array sizes 1-100 ");
scanf("%d%d",&s1,&s2);
printf("Enter %d elements for first array ",s1);
for(i=0;i<s1;i++)scanf("%d",&a[i]);
printf("Enter %d elements for second array ",s2);
for(i=0;i<s2;i++)scanf("%d",&b[i]);
for(i=s1,j=0; i<s1+s2;i++,j++ ) a[i]=b[j];
for(i=0;i<=s1+s2-2;i++)
{
for(j=i+1;j<=s1+s2-1;j++){if(a[i]>a[j]){int t=a[i];a[i]=a[j];a[j]=t;}}
}
printf("Merged Elements are ");for(i=0;i<s1+s2;i++)printf("%4d",a[i]);
getch();
}
```

TC

```
Enter first and second array sizes 1-100 5 4
Enter 5 elements for first array 8 2 -5 9 3
Enter 4 elements for second array 3 1 7 10
Merged Elements are  -5  1  2  3  3  7  8  9 10
```

TC



Frequency of array elements:

