

```
TC
Line 19 Col 1 Insert Indent Tab Fill Unindent * E:2PM.C
#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]){t=a[i];a[i]=a[j];a[j]=t;
}
}
}
printf("Sorted elements are ");
for(i=0;i<n;i++)printf("%4d",a[i]);
getch();
}

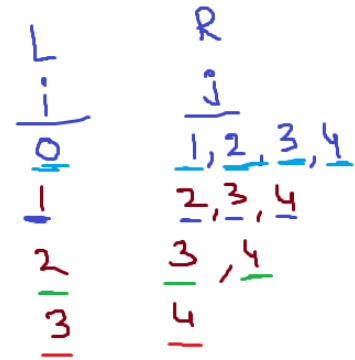
Enter array size 1-100 9
Enter 9 elements 9 0 3 7 -3 6 4 -5 9
Sorted elements are -5 -3 0 3 4 6 7 9 9

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```

```

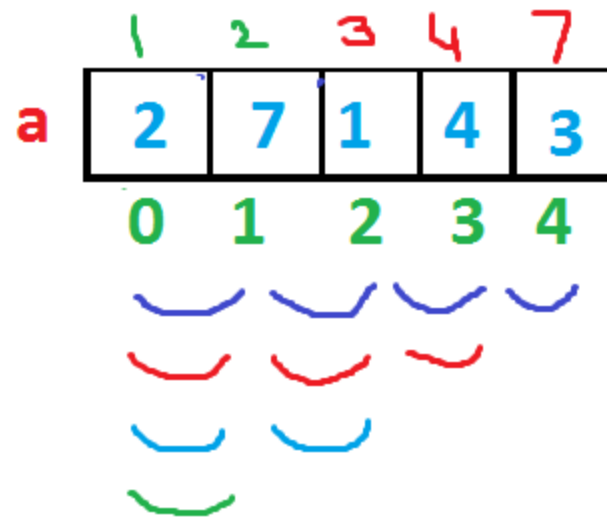
for(i=0; i<=n-2; i++) ✓
{
  for( j=i+1; j<=n-1; j++) ✓
  {
    L   R
    if(a[i]>a[j])
    {
      t=a[i];
      a[i]=a[j];
      a[j]=t;
    }
  }
}

```



Bubble sort:

2	7	1	4	3
2	1	7	4	3
2	1	4	7	3
2	1	4	3	7
1	2	4	3	7
1	2	3	4	7



i	j, j+1
0	0-1, 1-2, 2-3, 3-4
1	0-1, 1-2, 2-3
2	0-1, 1-2,
3	0-1

```
TC
Line 20 Col 41 Insert Indent Tab Fill Unindent * E:2PM.C
#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=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("Sorted elements are ");
for(i=0;i<n;i++)printf("%4d",a[i]);
getch();
}

Enter array size 1-100 7
Enter 7 elements 3 8 1 5 -3 7 3
Sorted elements are -3 1 3 3 5 7 8_

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```

```

for( i=0;i<=n-2;i++)
{
for(j=0; j<=n-i-2;j++)
{
  L   R
  if(a[j]>a[j+1])
  {
    t=a[j];
    a[j]=a[j+1];
    a[j+1]=t;
  }
}
}

```

$$j \leq n - i - 2$$

0	$5 - 0 - 2 = 3$
0	$5 - 1 - 2 = 2$
0	$5 - 2 - 2 = 1$
0	$5 - 3 - 2 = 0$

a

2	7	1	4	3
0	1	2	3	4

i	j, j+1
0	0-1, 1-2, 2-3, 3-4
1	0-1, 1-2, 2-3
2	0-1, 1-2,
3	0-1

Descending order:

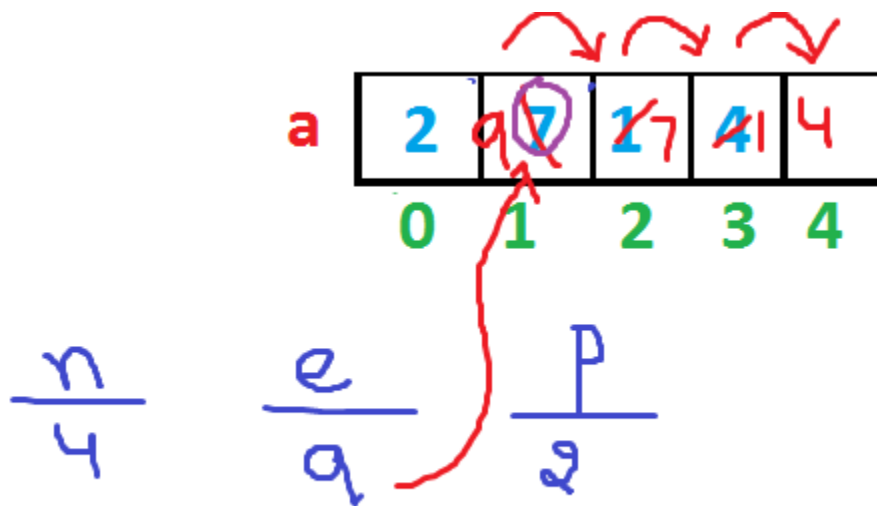
```
TC
Line 20 Col 9 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,j,t;
clrscr();
printf("Enter array size 1-100 "); scanf("%d",&n);
printf("Enter %d elements ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<=n-2;i++)
{
for(j=0;j<=n-i-2;j++)
{
if(a[j]<a[j+1]){t=a[j];a[j]=a[j+1];a[j+1]=t;
}
}
}
printf("Sorted elements are ");
for(i=0;i<n;i++)printf("%4d",a[i]);
getch();
}

Enter array size 1-100 9
Enter 9 elements 3 0 1 7 -3 7 1 4 5
Sorted elements are 7 7 5 4 3 1 1 0 -3_

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```

Inserting a new element into array: [push]

Right shifting of array elements



Deleting array element - POP

Left shifting of array elements:

