Arr1

```
#include <stdio.h>
int main(void) {
int i=0,arr[5]={4,5,7,5,6};
  printf("Array Elements are.....\n");
  for(i=0;i<5;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

arr	0	1	2	3	4
	4	5	7	5	6

I=0, 1, 2, 3, 4, 5

Array Elements are….

4 5 7 5 6

output

Array Elements are.....

4 5 7 3 4 5 12 3 4 34

Arr2

```
#include <stdio.h>

int main(void) {
  int i=0,arr[10];
  printf("Enter Array Elements.....\n");
  for(i=0;i<10;i++)
  {
    printf("Enter Element [%d]:",i+1);
    scanf("%d",&arr[i]);
```

```
  }
  printf("Array Elements are.....\n");
  for(i=0;i<10;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

Output

```
Enter Array Elements.......
Enter Element [1]:6
Enter Element [2]:3
Enter Element [3]:4
Enter Element [4]:8
Enter Element [5]:12
Enter Element [6]:34
Enter Element [7]:98
Enter Element [8]:45
Enter Element [9]:3
Enter Element [10]:24
Array Elements are.....
6   3   4   8   12  34  98  45  3   24
```

Arr3

```
#include <stdio.h>

int main(void) {
  int i=0,arr[10],n;
  printf("Enter Array Limit:");
```

```
  scanf("%d",&n);
  printf("Enter %d Array Elements.....\n",n);
  for(i=0;i<n;i++)
  {
    printf("Enter Element [%d]:",i+1);
    scanf("%d",&arr[i]);
  }
  printf("Array %d Elements are.....\n",n);
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

Output

```
Enter Array Limit:5

Enter 5 Array Elements.....

Enter Element [1]:3

Enter Element [2]:6

Enter Element [3]:8

Enter Element [4]:4

Enter Element [5]:9

Array 5 Elements are.....

3   6   8   4   9
```

insend

```
#include <stdio.h>
int main(void) {
  int i=0,arr[10],num,n;
  printf("Enter Array Limit:");
  scanf("%d",&n);
  printf("Enter Array Elements.....\n");
  for(i=0;i<n;i++)
  {
    printf("Enter Element [%d]:",i+1);
    scanf("%d",&arr[i]);
  }
  printf("Enter Number to insert:");
   scanf("%d",&num);
  printf("Array Elements before insert.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
   arr[n]=num;
   n++;
   printf("\nArray Elements after insert.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

arr	0	1	2	3	
	2	5	8	4	

I=0, 1, 2, 3, 4
Enter Array Limit:3
n=3, 4
Enter Array Elements…..
Enter Element [3]:8
Enter Number to insert:4
num=4
Array Elements before insert…
2 5 8
Array Elements after insert…
2 5 8 4

Output

Enter Array Limit:5
Enter Array Elements.....
Enter Element [1]:1
Enter Element [2]:2

Enter Element [3]:3
Enter Element [4]:7
Enter Element [5]:4
Enter Number to insert:9
Array Elements before insert.....
1 2 3 7 4
Array Elements after insert.....
1 2 3 7 4 9

insbeg

```
#include <stdio.h>
int main(void) {
  int i=0,arr[10],n,num;
  printf("Enter Array Limit:");
  scanf("%d",&n);
  printf("Enter Array Elements.....\n");
  for(i=0;i<n;i++)
  {
    printf("Enter Element [%d]:",i+1);
   scanf("%d",&arr[i]);
  }
  printf("Enter Number to insert:");
  scanf("%d",&num);
  printf("Array Elements before insert.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
   for(i=n;i>0;i--)
      arr[i]=arr[i-1];
   arr[i]=num;
   n++;
   printf("\nArray Elements after insert.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

arr

0	1	2	3	
4	2	5	8	

I=3, 2, 1, 0
n=4
arr[0]=2
arr[1]=5
arr[2]=8
Enter Number to insert:4
num=4
Array Elements before insert…
2 5 8
arr[0]=4
Array Elements after insert…
4 2 5 8

Output

Enter Array Limit:5

Enter Array Elements.....

Enter Element [1]:7

Enter Element [2]:3

Enter Element [3]:5

Enter Element [4]:4

Enter Element [5]:9

Enter Number to insert:10

Array Elements before insert.....

7 3 5 4 9

Array Elements after insert.....

10 7 3 5 4 9

Insmid

```
#include <stdio.h>
int main(void) {
  int i=0,arr[10],n,num,pos;
  printf("Enter Array Limit:");
  scanf("%d",&n);
  printf("Enter Array Elements.....\n");
  for(i=0;i<n;i++)
  {
    printf("Enter Element [%d]:",i+1);
    scanf("%d",&arr[i]);
  }
  printf("Enter Number to insert:");
  scanf("%d",&num);
  printf("Enter Position to insert:");
  scanf("%d",&pos);
  printf("Array Elements before insert.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
   for(i=n;i>=pos;i--)
     arr[i]=arr[i-1];
   arr[pos-1]=num;
   n++;
   printf("\nArray Elements after insert.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

arr	0	1	2	3	4
	2	5	9	8	6

```
I=4, 3, 2
n=4, 5
num=9
Enter Position to insert:3
pos=3
Array Elements before insert…
2       5       8       6
arr[2]=9
Array Elements after insert…

2       5       9       8       6
```

Output

Enter Array Limit:5

Enter Array Elements.....

Enter Element [1]:5

Enter Element [2]:3

Enter Element [3]:8

Enter Element [4]:4

Enter Element [5]:2

Enter Number to insert:9

Enter Position to insert:3

Array Elements before insert.....

5 3 8 4 2

Array Elements after insert.....

5 3 9 8 4 2

delend

```
#include <stdio.h>
int main(void) {
  int i=0,arr[10],n;
  printf("Enter Array Limit:");
  scanf("%d",&n);
  printf("Enter Array Elements.....\n");
  for(i=0;i<n;i++)
  {
    printf("Enter Element [%d]:",i+1);
```

```
    scanf("%d",&arr[i]);
  }
  printf("Array Elements before delete.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
   n--;
   printf("\nArray Elements after delete.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

Output

```
Enter Array Limit:5
Enter Array Elements.....
Enter Element [1]:3
Enter Element [2]:2
Enter Element [3]:7
Enter Element [4]:5
Enter Element [5]:8
Array Elements before delete.....
3   2   7   5   8
Array Elements after delete.....
3   2   7   5
```

delbeg

```
#include <stdio.h>
```

```
int main(void) {
  int i=0,arr[10],n;
  printf("Enter Array Limit:");
  scanf("%d",&n);
  printf("Enter Array Elements.....\n");
  for(i=0;i<n;i++)
  {
    printf("Enter Element [%d]:",i+1);
    scanf("%d",&arr[i]);
  }
  printf("Array Elements before delete.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
   for(i=0;i<n;i++)
   arr[i]=arr[i+1];
   n--;
   printf("\nArray Elements after delete.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

Output

```
Enter Array Limit:5
Enter Array Elements.....
Enter Element [1]:7
Enter Element [2]:3
Enter Element [3]:9
Enter Element [4]:7
Enter Element [5]:2
```

```
Array Elements before delete.....
7   3   9   7   2
Array Elements after delete.....
3   9   7   2
```

delmid

```
#include <stdio.h>
int main(void) {
  int i=0,arr[10],n,pos;
  printf("Enter Array Limit:");
  scanf("%d",&n);
  printf("Enter Array Elements.....\n");
  for(i=0;i<n;i++)
  {
    printf("Enter Element [%d]:",i+1);
    scanf("%d",&arr[i]);
  }
  printf("Enter Position to delete:");
  scanf("%d",&pos);
  printf("Array Elements before delete.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
   for(i=pos-1;i<n;i++)
   arr[i]=arr[i+1];
   n--;
   printf("\nArray Elements after delete.....\n");
  for(i=0;i<n;i++)
   {
     printf("%d\t",arr[i]);
   }
  return 0;
}
```

Output

```
Enter Array Limit:5
Enter Array Elements.......
Enter Element [1]:5
Enter Element [2]:3
Enter Element [3]:8
Enter Element [4]:6
Enter Element [5]:1
Enter Position to delete:4
Array Elements before delete.....
5   3   8   6   1
Array Elements after delete.....
5   3   8   1
```