

ARRAY OPERATION

```
1  #include<stdio.h>
2  void Insertion(int *arr,int size,int pos,int num){
3      for(int i=size-1;i>pos;i--){
4          arr[i]=arr[i-1];
5      }
6      arr[pos]=num;
7  }
8
9
10 void Deletion(int *arr,int size,int pos){
11     for(int i=pos;i<size;i++){
12         arr[i-1]=arr[i];
13     }
14 }
15
16
17 void Display(int *arr,int size){
18     for(int i=0;i<size;i++){
19         printf("%d ",arr[i]);
20     }
21 }
22
23
24 int main(){
25     int size,pos,choose,num;
26     printf("Enter how many you want to store an array:");
27     scanf("%d",&size);
28     int arr[size];
29     printf("Enter the elements:");
30     for(int i=0;i<size;i++){
31         scanf("%d",&arr[i]);
32     }
33
34
35     do{
36         printf("\nEnter you want to 1.insertion or 2.deletion 3.Display 4.Exit:");
37         scanf("%d",&choose);
38         switch(choose){
39             case 1:
40                 printf("\nEnter the position you want to store an element:");
41                 scanf("%d",&pos);
42                 printf("\nEnter the element you want to store in an array:");
43                 scanf("%d",&num);
44                 size++;
45                 Insertion(arr,size,pos,num);
46                 break;
47
48             case 2:
49                 printf("\nEnter the position you want to Delete:");
50                 scanf("%d",&pos);
51                 Deletion(arr,size,pos);
52                 size--;
53                 break;
54
55             case 3:
56                 printf("\nThe elements are\n");
57                 Display(arr,size);
58                 break;
59         }
60     }while(choose!=4);
61
62
63
64 }
65
```

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OUTPUT

```
E:\Insert_Deletion.exe
Enter how many you want to store an array:5
Enter the elements:1 2 3 4 5

Enter you want to 1.insertion or 2.deletion 3.Display 4.Exit:1
Enter the position you want to store an element:5
Enter the element you want to store in an array:6
Enter you want to 1.insertion or 2.deletion 3.Display 4.Exit:1
Enter the position you want to store an element:6
Enter the element you want to store in an array:7
Enter you want to 1.insertion or 2.deletion 3.Display 4.Exit:3

The elements are
1 2 3 4 5 6 7
Enter you want to 1.insertion or 2.deletion 3.Display 4.Exit:2
Enter the position you want to Delete:6
Enter you want to 1.insertion or 2.deletion 3.Display 4.Exit:3

The elements are
1 2 3 4 5 7
Enter you want to 1.insertion or 2.deletion 3.Display 4.Exit:4

Process returned 0 (0x0)   execution time : 33.778 s
Press any key to continue.
```