ARRAY OPERATION

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CSE

```c
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
```