```
#include<stdio.h>
int main()
{
  int n,a[10],i,pos,ele;
   char ch;
   printf("Enter the size of array\n");
   scanf("%d",&n);
   printf("%d\n",n);
   printf("Enter the elements of array\n");
   for(i=0;i<n;i++)
   {
       scanf("%d", &a[i]);
       printf("%d\t",a[i]);
   printf("\nThe array elements are \n");
   for(i=0;i<n;i++)
       printf("%d\t",a[i]);
   printf("\nEnter the choice\n 1 for insertio
   scanf(" %c", &ch);
   printf(" %c\n",ch);
   switch(ch)
   {
     case '1': printf("Enter the postion where
            scanf("%d",&pos);
             printf("%d\n",pos);
             printf("Enter the element to be i
             scanf("%d", &ele);
             printf("%d\n",ele);
             for(i=n-1;i>=pos;i--)
             {
                 a[i+1]=a[i];
             a[pos]=ele;
             n++;
             printf("The array after insertion
             for(i=0;i<n;i++)
             scanf("%d" &a[i]).
                                 &
                                        RUN
```

```
, &CN);
c\n",ch);
: printf("Enter the postion where new element
canf("%d", &pos);
printf("%d\n",pos);
printf("Enter the element to be inserted\n");
scanf("%d", &ele);
printf("%d\n",ele);
for(i=n-1;i>=pos;i--)
{
    a[i+1]=a[i];
a[pos]=ele;
n++;
printf("The array after insertion\n");
for(i=0;i<n;i++)
scanf("%d",&a[i]);
printf("%d\t",a[i]);
break:
:printf("Enter the position where element is d
canf("%d", &pos);
rintf("%d\n",pos);
rintf("Enter the element to be deleted\n");
canf("%d", &ele);
rintf("%d\n",ele);
le=a[pos];
or(i=pos;i<n-1;i++)
   a[i]=a[i+1];
rintf("The array after deletion of element\n")
or(i=0;i<n;i++)
   printf("%d\t",a[i]);
```

```
printf("%d\n",pos);
printf("Enter the element to be inserted\n");
scanf("%d", &ele);
printf("%d\n",ele);
for(i=n-1;i>=pos;i--)
    a[i+1]=a[i];
a[pos]=ele;
n++;
printf("The array after insertion\n");
for(i=0;i<n;i++)
{
scanf("%d", &a[i]);
printf("%d\t",a[i]);
break;
:printf("Enter the position where element is d
canf("%d", &pos);
rintf("%d\n",pos);
rintf("Enter the element to be deleted\n");
canf("%d", &ele);
rintf("%d\n",ele);
le=a[pos];
or(i=pos;i<n-1;i++)
   a[i]=a[i+1];
rintf("The array after deletion of element\n")
or(i=0;i<n;i++)
   printf("%d\t",a[i]);
reak;
printf("invalid choice");
```

```
scant("%d",&pos);
        printf("%d\n", pos);
        printf("Enter the element to be inserte
        scanf("%d", &ele);
        printf("%d\n",ele);
        for(i=n-1;i>=pos;i--)
            a[i+1]=a[i];
        a[pos]=ele;
        n++;
        printf("The array after insertion\n");
        for(i=0; i<n; i++)
        {
        scanf("%d",&a[i]);
        printf("%d\t",a[i]);
        break;
case '2':printf("Enter the position where elem
       scanf("%d", &pos);
       printf("%d\n", pos);
       printf("Enter the element to be deleted"
       scanf("%d", &ele);
       printf("%d\n",ele);
       ele=a[pos];
       for(i=pos;i<n-1;i++)
           a[i]=a[i+1];
       }
       n--:
       printf("The array after deletion of ele
       for(i=0;i<n;i++)
           printf("%d\t",a[i]);
       break:
default:printf("invalid choice");
```

```
scant("%d",&pos);
          printf("%d\n", pos);
          printf("Enter the element to be i
          scanf("%d", &ele);
          printf("%d\n",ele);
          for(i=n-1;i>=pos;i--)
              a[i+1]=a[i];
          a[pos]=ele;
          n++;
          printf("The array after insertion
          for(i=0;i<n;i++)
          scanf("%d",&a[i]);
          printf("%d\t",a[i]);
          break;
  case '2':printf("Enter the position where
         scanf("%d", &pos);
         printf("%d\n", pos);
         printf("Enter the element to be de
         scanf("%d", &ele);
         printf("%d\n",ele);
         ele=a[pos];
         for(i=pos;i<n-1;i++)
             a[i]=a[i+1];
         printf("The array after deletion o
         for(i=0;i<n;i++)
             printf("%d\t",a[i]);
         break:
  default:printf("invalid choice");
}
```

INPUT

If your program needs any run time inputs, please add it here. Use new lines for more than one input.

4

3



CANCEL **RUN**



```
Enter the size of array
4
Enter the elements of array
2376
The array elements are
2376
Enter the choice
1 for insertion 2 for deletion
3
invalid choice
```

Name & Popla Rajesh Talekar USNI & 4ALIACSUGA Section & G'

White a C porogonam to insert and delete elements in an array.

Algorithum :

- 1) Start
- 2) Enput D
- 3) Display Enter array elements
 for (P=0) Prn iP++)

 whout a [P]
- 4) Enter the choice for ungertion 3 for delction unput ch
- 5) Gwitch (Ch)

case i': Input nor us

for (P=n-1: P=poe Bon: P--)

a [Pos] = ele

n++

display array of for unser Bon

for (1=0;1rn; 9++)
output acr)
heak!

Case a: Japut nor ele

CIC = a [pos]

for (1=pos : 17n-1:1++)

Display array after delena

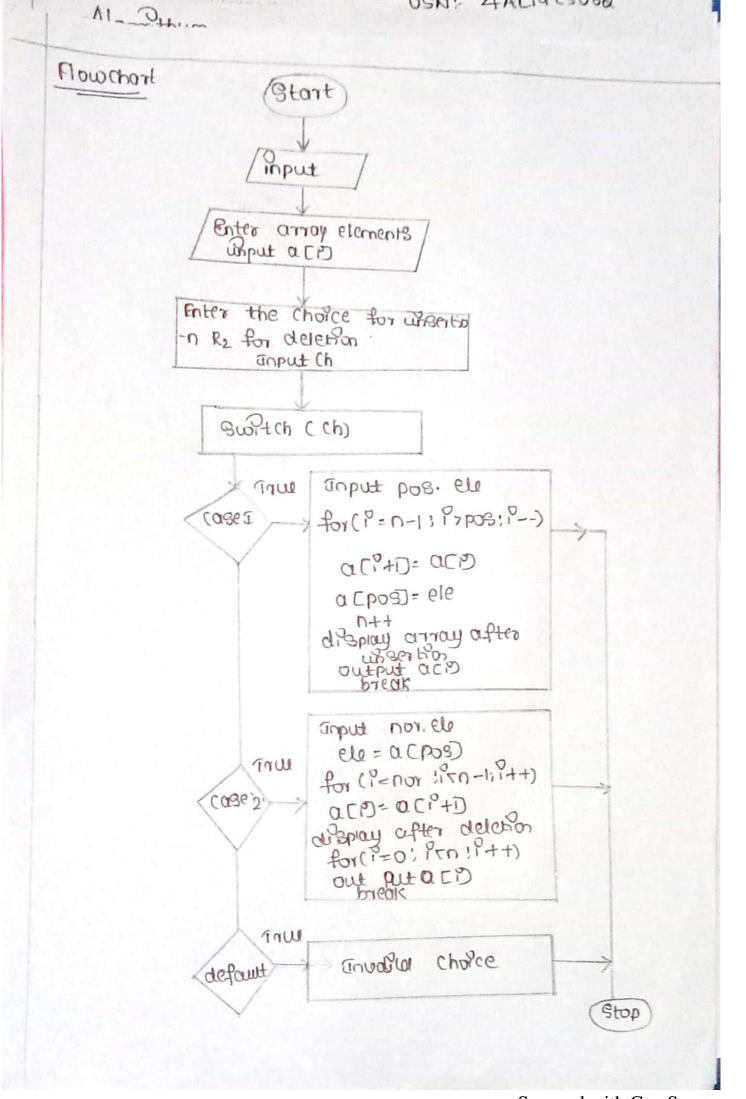
for (1=0:17n:17++)

Output a[r)

break

default: Display unvalid choice

Step 6: Stop.



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