C program to Insert and delete array elements

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Algorithm:

Step 1: Start

Step 2: Input n

Step 3: Display Enter array elements
   for $(i=0; i<n; i++)$
      Input $a[i]$

Step 4: Enter choice 1 for Insertion and 2 for deletion

Step 5: Input ch

Step 5: Switch (ch)
   Case 1: Input pos, ele
         for $(i=n-1; i>=pos; i--)$
            $a[i+1] = a[i]$
            $a[pos] = ele$
            $n++$
         Display array after Insertion
         for $(i=0; i<n; i++)$
            Output $a[i]$
            break

   Case 2: Input pos, ele
            $ele = a[pos]$
            for $(i=pos; i<n-1; i++)$
            $a[i] = a[i+1]$

            $n--$
         Display array after deletion
            for $(i=0; i<n; i++)$
            output $a[i]$
            break
            default: Display Invalid choice

   Step 6: Stop

Flowchart

Start

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Input n

Enter array elements

Enter choice 1 for Insertion
2 for deletion

Switch ch

case 1 — T →

Input pos.ele
for (i=n-1;i>=pos;i--)
a[i+1] = a[i]
a[pos] = ele
n++
Display array after
Insertion
output a[i]
break

F

T →

Input pos.ele
ele = a[pos]
for (i=pos; i<n-1;i++)
a[p] = a[i+1]
n --
Array after deletion
for (i=0; i<n; i++)
output a[i]
break

F

F → Invalid choice →

Stop