

## 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 the choice 1 for insertion and 2 for deletion

input  $ch$

Step 5: Switch( $ch$ )

case '1': input  $pos, ele$

for( $i=n-1$ ;  $i \geq pos$ ;  $i--$ )

$a[i+1] = a[i]$

$a[pos] = ele$

$n++$

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

