Algorithm

Step1: Start

Step2:- Input n

Step3:- Display enter array element
for (i<0; i<n; i++)
Input a[i]

Step4:- enter the choice 2 for insertion 3 for deletion
Input ch

Step5:- 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++)
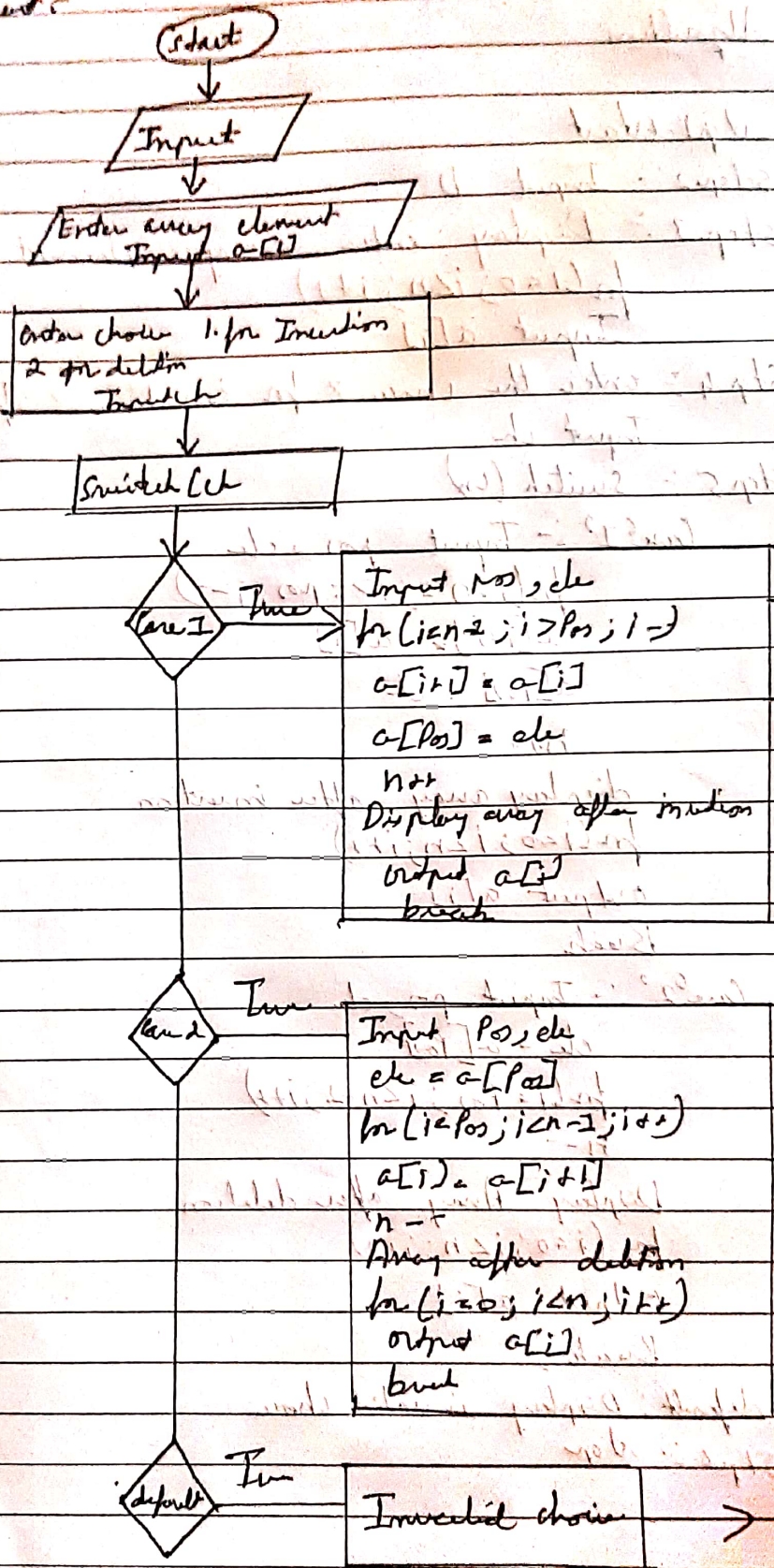n--
Display Array after deletion
for (i<0; i<n; i++)
output a[i]
Break;

default: Display invalid choice

Step6: Stop

flowchart :

```
                    ( start )
                        |
                        v
                  / Input /
                        |
                        v
          / Enter array element
              Input a[i] /
                        |
                        v
        | Enter choice  1. for Insertion
          2 for deletion
                switch |
                        |
                        v
            | switch (ch) |
                        |
                        v
                      / \         True      | Input pos, ele
                     / case 1 \------------->| for (i=n-1; i>pos; i--)
                      \ /                     | a[i+1] = a[i]
                        |                     | a[pos] = ele
                        |                     | n++
                        |                     | Display array after insertion
                        |                     | output a[i]
                        |                     | break
                        v
                      / \         True      | Input pos, ele
                     / case 2 \------------->| ele = a[pos]
                      \ /                     | for (i=pos; i<n-1; i++)
                        |                     | a[i] = a[i+1]
                        |                     | n--
                        |                     | Array after deletion
                        |                     | for (i=0; i<n; i++)
                        |                     | output a[i]
                        |                     | break
                        v
                      / \         True
                     / default \------------>| Invalid choice |------>
                      \ /                                              |
                        |                                              |
                        v                                              v
                                                               ( stop )
```