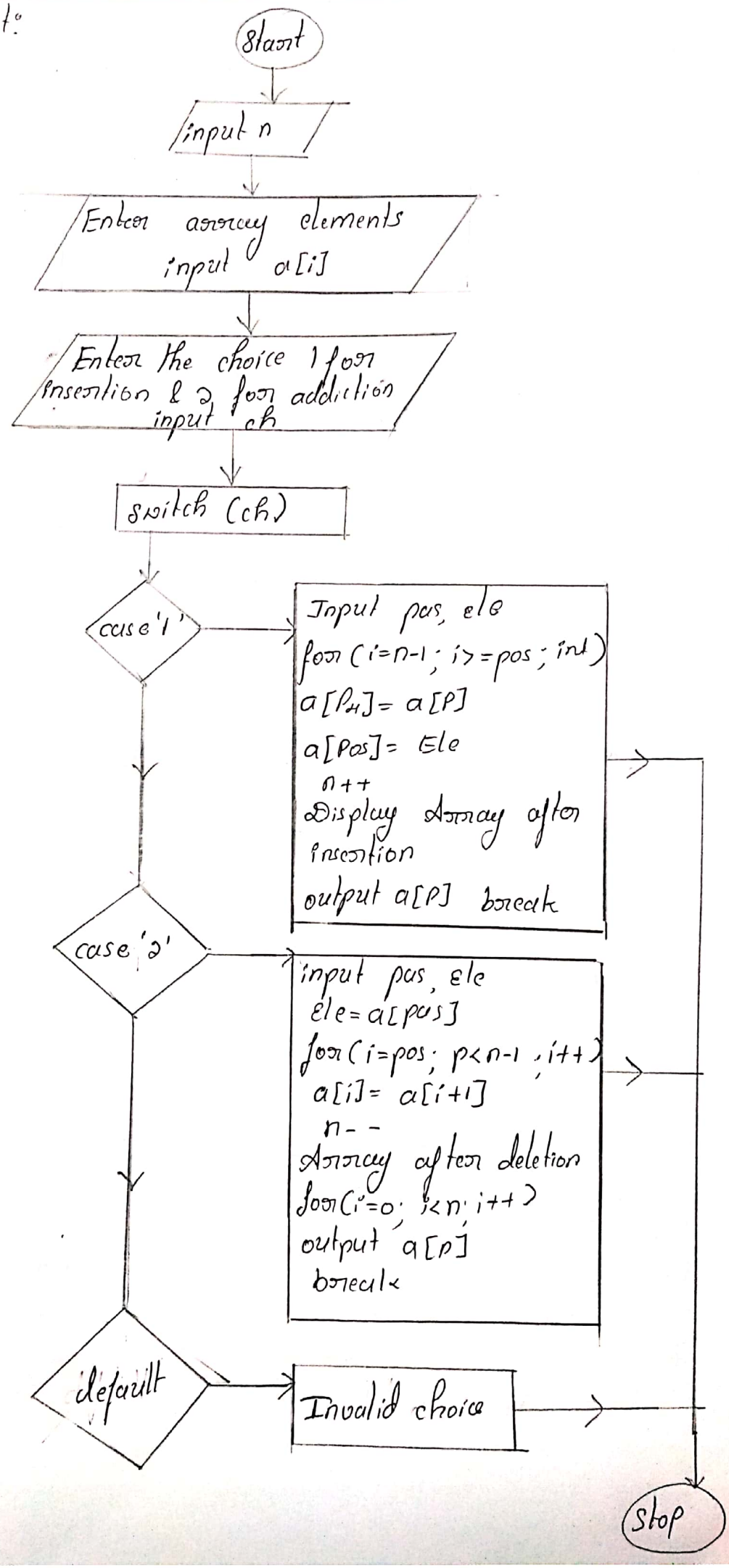
Algorithm

1. Start
2) Input n
3) Display Enter array elements
   for (i=0; i<n; i++)
   input a[i]
4) Enter the choice 1 for initialion 2 for addition
   input ch
5) Switch (ch)
   case '1': Input pas, Ele
      for (i=n-1; i>=pas; i--)
      a[i+1] = a[i]
      a[pas] = 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
6) Stop

GANAVI HAL19CS033

Flowchart:



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Code, Compile & Run

Ide

Contest Code/Name (e.g. JULY15/PRACTICE) | Problem Code/Name (e.g. TEST) | Select

C (gcc 6.3) — Code gets autosaved every second

```
38              for(i=0;i<n;i++)
39              {
40              scanf("%d",&a[i]);
41              printf("%d\t",a[i]);
42              }
43              break;
44
45      case '2':printf("Enter the position where element is deleted\n");
46              scanf("%d",&pos);
47              printf("%d\n",pos);
48              printf("Enter the element to be deleted\n");
49              scanf("%d",&ele);
50              printf("%d\n",ele);
51              ele=a[pos];
52              for(i=pos;i<n-1;i++)
53              {
54                  a[i]=a[i+1];
55              }
56              n--;
57              printf("The array after deletion of element\n");
58              for(i=0;i<n;i++)
59              {
60                  printf("%d\t",a[i]);
61              }
62              break;
63      default:printf("invalid choice");
64      }
65  }
```

64,1

Open File | Custom Input | Run

Custom Input

```
4
1 2 3 4
1
2
```

Status Runtime error **Date** 2020-06-04 16:27:32 **Time** 0 sec **Mem** 9.424 kB

Input

```
4
1 2 3 4
1
2
```

Output

```
Enter the choice
 1 for insertion     2 for deletion
 1
Enter the postion where new element is inserted
2
Enter the element to be inserted
11159
```