Jan () Array Insertion I deletion Algorithm for insorting 1. START 2. Initialise the variables 3. Input the position to insert 4. Input the element to insert. 5. Start the for loop from the back and inchement the pas elements by one till the position 6. STOP. Algorithm bor deleting 2. Imitialize the variables

3. Input the position to be deleted 4. Use food loop to set all the position of all elements from the position given the 5. STOP. Algorithm for main 1. START 2. Iinitialize the variables. 3. Imitialize the array with its elements. 4. Call Insort function

4. Call Insert function
5. Call delete function
6. STOP.

```
#include <stdio.h>
//inserting in array
void inserter(int* n, int array[]){
  int i,pos,val;
  printf("\nEnter the position to insert a value[1<x<%d]: ",*n+1);</pre>
        scanf("%d",&pos);
  if(pos==*n+1){
    printf("value to insert: ");
    scanf("%d",&val);
    array[pos-1]=val;
    *n+=1;
    printf("\nArray after insertion --> ");
    for(i=0;i<*n-1;i++){
      printf("%d , ",array[i]);
    }printf("%d\n",array[*n-1]);
  }
        else if(pos>=1 && pos<=*n){
    printf("value to insert: ");
    scanf("%d",&val);
    for(i=*n;i>pos-1;i--){
      array[i]=array[i-1];
    array[i]=val;
    *n+=1;
    printf("\nArray after insertion --> ");
    for(i=0;i<*n-1;i++){
      printf("%d , ",array[i]);
    }printf("%d\n",array[*n-1]);
  }
 else
                printf("Array index out of bound!");
}
//deleting an element from array
void deleter(int *n,int array[]){
  int i,pos;
  printf("\nEnter the position to be deleted[1<x<%d]: ",*n);</pre>
        scanf("%d",&pos);
        if(pos>=1 && pos<=*n){
    for(i=pos-1;i<*n-1;i++){
      array[i]=array[i+1];
    }
    *n-=1;
    printf("Array after deletion --> ");
    for(i=0;i<*n-1;i++){
      printf("%d , ",array[i]);
    }printf("%d\n",array[*n-1]);
  }
```

```
else
                printf("Array index out of bound!");
}
int main(){
  int ans=1;
  printf("Enter the array capacity: ");
  int n;
  scanf("%d",&n);
  int array[n];
  int i;
        printf("\nThen carry on with the elements now\n");
        for(i=0;i<n;i++){
                scanf("%d",&array[i]);
        }
        printf("Current Array--> ");
        for(i=0;i<n-1;i++){
                printf("%d', ",array[i]);
        }
        printf("%d\n",array[n-1]);
  while(ans!=0){
    inserter(&n,array);
    deleter(&n,array);
    printf("\n********press 0 to exit or press 1 to continue********\n");
    scanf("%d",&ans);
 }
}
```

