#include <stdio.h>

#include <stdlib.h>

Void main()

{

Int a[100];

Int element,I,loc,size,n,j,choice,toSearch,found;

Printf(“\nC Program to Insert and Delete an Element in an Array using switch case\n”);

While(j!=7)

{

Printf(“\n1. Inserting an Element in an Array\n”);

Printf(“2. Deleting an Element in an Array\n”);

Printf(“3. Searching an Element in an Array\n”);

Printf(“4.exit\n”);

Printf(“Select your choice : “);

Scanf(“%d”,&choice);

Switch(choice)

{

Case 1:

Printf(“Enter the size of an array\n”);

Scanf(“%d”,&size);

Printf(“Enter %d array elements\n”,size);

For(i=0;i<size;i++)

{

Scanf(“%d”,&a[i]);

}

Printf(“List before Insertion: “);

For(i=0;i<size;i++)

{

Printf(“%d “,a[i]);

}

Printf(“\nEnter an element to insert\n”);

Scanf(“%d”,&element);

Printf(“Enter a position to insert an element %d\n”,element);

Scanf(“%d”,&loc);

Loc--;

For(i=size-1;i>=loc;i--)

{

A[i+1]=a[i];

}

A[loc]=element;

Printf(“List after Insertion: “);

For(i=0;i<size+1;i++)

{

Printf(“%d “,a[i]);

}

Break;

Case 2:

Printf(“Enter the size of an array\n”);

Scanf(“%d”,&size);

Printf(“Enter elements\n”);

For(i=0;i<size;i++)

{

Scanf(“%d”,&a[i]);

}

Printf(“List before deletion\n”);

For(i=0;i<size;i++)

{

Printf(“%d “,a[i]);

}

Printf(“\nEnter an element to delete\n”);

Scanf(“%d”,&n);

For(i=0;i<size;i++)

{

If(a[i]==n)

{

For(j=I;j<(size-1);j++)

{

A[j]=a[j+1];

}

Break;

}

}

Printf(“List after deletion\n”);

For(i=0;i<(size-1);i++)

{

Printf(“%d “,a[i]);

}

Break;

Case 3:

Printf(“Enter size of array: “);

Scanf(“%d”, &size);

Printf(“Enter elements in array: “);

For(i=0; i<size; i++)

{

Scanf(“%d”, &a[i]);

}

Printf(“\nEnter element to search: “);

Scanf(“%d”, &toSearch);

/\* Assume that element does not exists in array \*/

Found = 0;

For(i=0; i<size; i++)

{

If(a[i] == toSearch)

{

Found = 1;

Break;

}

}

If(found == 1)

{

Printf(“\n%d is found at position %d”, toSearch, I + 1);

}

Else

{

Printf(“\n%d is not found in the array”, toSearch);

}

Break;

Case 4:

Exit(0);

Default:

{

Printf(“Wrong choice”);

}

}

}

}