

You have to write an interactive C program that can create an integer array, insert elements into the array, search in the array, delete elements from the array and print the current elements of the array. Consider the maximum size of the integer array can be 100. You have to display a menu of possible actions to prompt the user every time (after one action) like the following:

Menu :

```
Enter 1 to Create an array
Enter 2 to Print the array
Enter 3 to Insert an element
Enter 4 to Search for an element
Enter 5 to Delete an element
Enter 6 to Exit
```

Task details:

1. **Enter 1 to Create an array:** You have to take the size of the array as input first, then create it. Show proper message if the given size exceeds the boundary.
2. **Enter 2 to Print array:** Print the current size of the array and then print the elements of the array. Show proper message if the array is empty.
3. **Enter 3 to Insert an element:** You have to take an element as input and insert it at the end of the array. Show proper message if the array is full.
4. **Enter 4 to Search for an element:** Take as input the element to be searched and give as output the index of that element where it is first found. If not found show proper message.
5. **Enter 5 to Delete an element:** Take as input the element to be deleted and give as output the index/indices from where it is deleted, which means if the given element is present multiple times in the array you have to delete all of them. After deletion shift the elements of the array so that there is no empty space in between. If the element to be deleted is not in the array show proper message.
6. **Enter 6 to Exit**