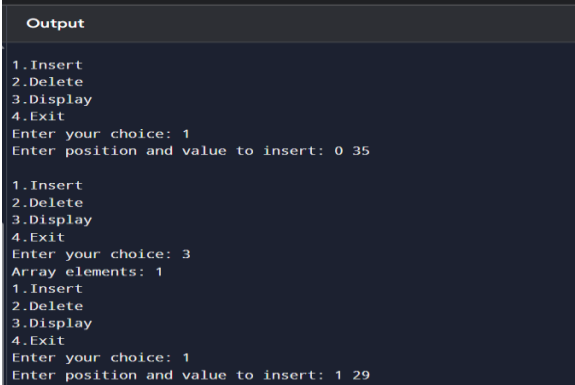


7.

```
#include <stdio.h>

int main() {
    int arr[100], n = 0, choice, i, pos, val;
    while(1) {
        printf("\n1.Insert\n2.Delete\n3.Display\n4.Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
        switch(choice) {
            case 1: printf("Enter position and value to insert: ");
                    scanf("%d%d", &pos, &val);
                    for(i = n; i >= pos; i--)
                        arr[i] = arr[i - 1];
                    arr[pos - 1] = val;
                    n++;
                    break;
            case 2: printf("Enter position to delete: ");
                    scanf("%d", &pos);
                    for(i = pos - 1; i < n - 1; i++)
                        arr[i] = arr[i + 1];
                    n--;
                    break;
            case 3: printf("Array elements: ");
                    for(i = 0; i < n; i++)
                        printf("%d ", arr[i]);
                    break;
            case 4: return 0;

            printf("Invalid choice!\n");
        }
    }
}
```



```
Output
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 1
Enter position and value to insert: 0 35
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 3
Array elements: 1
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 1
Enter position and value to insert: 1 29
```

