

main.c

Run

Share

```
1 #include <stdio.h>
2 #define SIZE 100
3- int main() {
4     int arr[SIZE], n = 0, choice, i, pos, val, found;
5-     while (1) {
6         printf("\n1.Insert 2.Delete 3.Find 4.Display 5.Exit\n");
7         printf("Enter your choice: ");
8         scanf("%d", &choice);
9-         switch (choice) {
10             case 1: // Insert
11                 if (n >= SIZE) {
12                     printf("Array is full!\n");
13                     break;
14                 }
15                 printf("Enter position (0 to %d): ", n);
16                 scanf("%d", &pos);
17-                 if (pos < 0 || pos > n) {
18                     printf("Invalid position!\n");
19                     break;
20                 }
21                 printf("Enter value: ");
22                 scanf("%d", &val);
23                 for (i = n; i > pos; i--)
24                     arr[i] = arr[i - 1];
25                 arr[pos] = val;
26                 n++;
```

Output

Clear

```
1.Insert 2.Delete 3.Find 4.Display 5.Exit
Enter your choice: 1
Enter position (0 to 0): 0
Enter value: 10

1.Insert 2.Delete 3.Find 4.Display 5.Exit
Enter your choice: 
```

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```
27         break;
28     case 2: // Delete
29         if (n == 0) {
30             printf("Array is empty!\n");
31             break;
32         }
33         printf("Enter position (0 to %d): ", n - 1);
34         scanf("%d", &pos);
35         if (pos < 0 || pos >= n) {
36             printf("Invalid position!\n");
37             break;
38         }
39         for (i = pos; i < n - 1; i++)
40             arr[i] = arr[i + 1];
41         n--;
42         break;
43     case 3: // Find
44         printf("Enter value to find: ");
45         scanf("%d", &val);
46         found = 0;
47         for (i = 0; i < n; i++) {
48             if (arr[i] == val) {
49                 printf("Found at position %d\n", i);
50                 found = 1;
51                 break;
52             }
53         }
54     }
55 }
```

```
1.Insert 2.Delete 3.Find 4.Display 5.Exit
Enter your choice: 1
Enter position (0 to 0): 0
Enter value: 10

1.Insert 2.Delete 3.Find 4.Display 5.Exit
Enter your choice: |
```

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```
49     printf("Found at position %d\n", i);
50     found = 1;
51     break;
52 }
53
54 if (!found)
55     printf("Value not found.\n");
56 break;
57 case 4: // Display
58     if (n == 0)
59         printf("Array is empty.\n");
60     else {
61         printf("Array elements: ");
62         for (i = 0; i < n; i++)
63             printf("%d ", arr[i]);
64         printf("\n");
65     }
66     break;
67 case 5: // Exit
68     return 0;
69 default:
70     printf("Invalid choice!\n");
71 }
72 }
73 return 0;
74 }
```

Output

Clear

1.Insert 2.Delete 3.Find 4.Display 5.Exit
Enter your choice: 1
Enter position (0 to 0): 0
Enter value: 10

1.Insert 2.Delete 3.Find 4.Display 5.Exit
Enter your choice: |