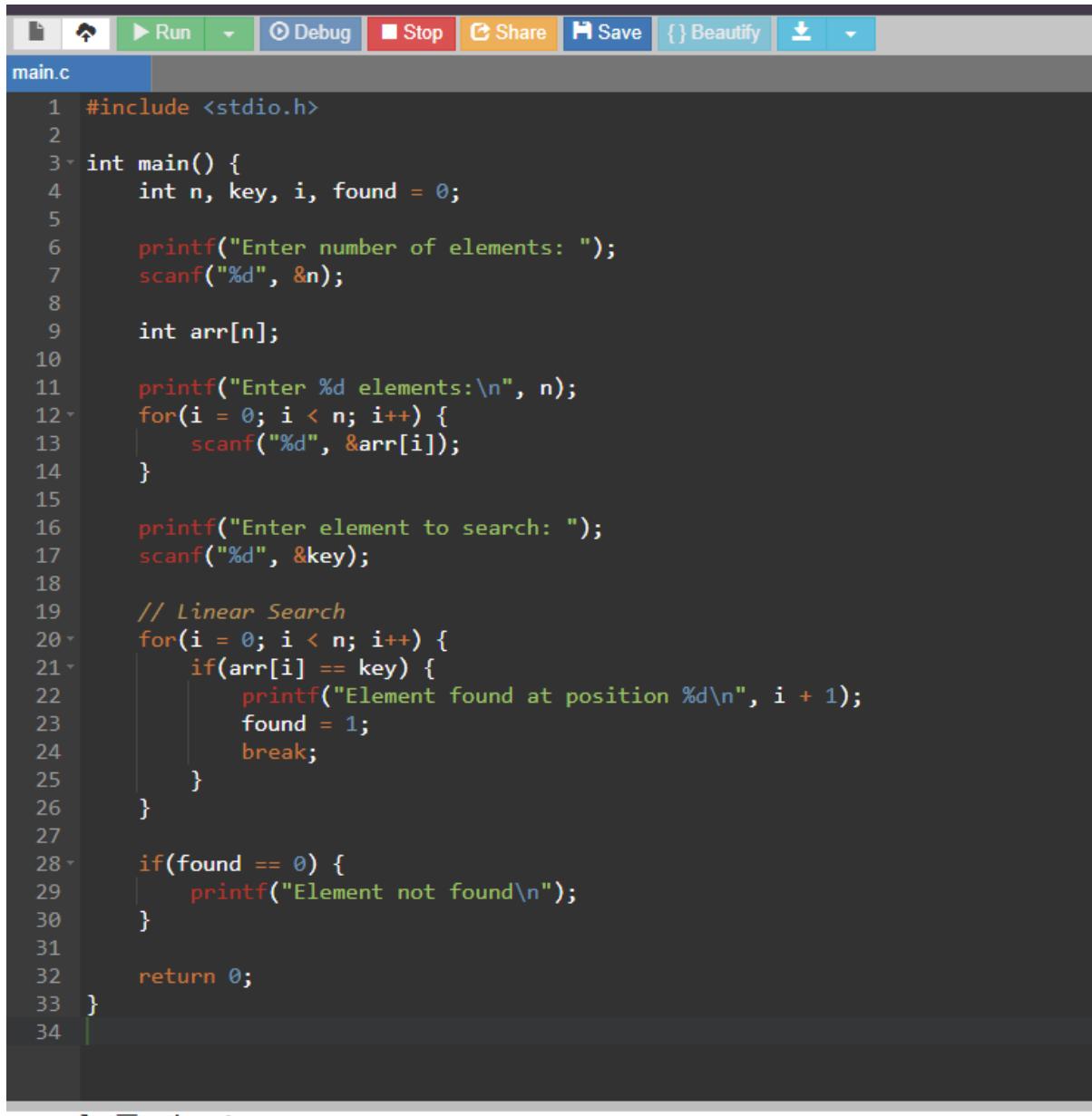


Linear search:

Code:



The screenshot shows a code editor window with the following details:

- Toolbar:** Includes icons for Run, Debug, Stop, Share, Save, and Beautify.
- File:** The file is named "main.c".
- Code Content:** The code implements a linear search algorithm. It first prompts the user for the number of elements and the elements themselves. It then prompts for a search key and performs a linear search through the array. If the key is found, it prints its position; otherwise, it prints a message indicating the element was not found.

```
1 #include <stdio.h>
2
3 int main() {
4     int n, key, i, found = 0;
5
6     printf("Enter number of elements: ");
7     scanf("%d", &n);
8
9     int arr[n];
10
11    printf("Enter %d elements:\n", n);
12    for(i = 0; i < n; i++) {
13        scanf("%d", &arr[i]);
14    }
15
16    printf("Enter element to search: ");
17    scanf("%d", &key);
18
19    // Linear Search
20    for(i = 0; i < n; i++) {
21        if(arr[i] == key) {
22            printf("Element found at position %d\n", i + 1);
23            found = 1;
24            break;
25        }
26    }
27
28    if(found == 0) {
29        printf("Element not found\n");
30    }
31
32    return 0;
33 }
34
```

Output:

```
v e F S
Enter number of elements: 5
Enter 5 elements:
24
23
54
6
98
Enter element to search: 23
Element found at position 2

...Program finished with exit code 0
Press ENTER to exit console.
```