

```
#include <stdio.h>
int linearSearch(int arr[], int n, int target)
{
    int i;
    for (i = 0; i < n; i++)
    {
        if (arr[i] == target)
        {
            return i; // Element found at index i
        }
    }
    return -1; // Element not found
}

int main()
{
    int arr[] = {10, 2, 8, 5, 17};
    int n = sizeof(arr) / sizeof(arr[0]);
    int target = 8;
    int result = linearSearch(arr, n, target);
    if (result == -1)
    {
        printf("Element not found in the array.\n");
    }
    else
    {
        printf("Element found at index: %d\n", result);
    }
    return 0;
}
```