

```

#include <iostream>
using namespace std;

int search(int a[], int key, int n)
{
    if (n < 0)
        return -1;
    else if (a[n] == key)
        return n;

    else
        return search(a, key, n - 1);
}

int main()
{
    int n, arr[100], x;
    cout << "Enter number of elements: ";
    cin >> n;
    cout << "Enter elements: ";
    for (int i = 0; i < n; i++)
        cin >> arr[i];
    cout << "Enter number to the found: ";
    cin >> x;
    int index = search(arr, x, n - 1);
    if (index == -1)
        cout << "Not found";
    else
        cout << "Found at index:" << index;

    return 0;
}

```

## OUTPUT:

```

User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && g++ linear_search_recursive.cpp -o linear_search_recursive && "/c/ada lab/"linear_search_recursive
Enter number of elements: 5
Enter elements: 10 20 30 40 50
Enter number to the found: 50
Found at index:4
User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && g++ linear_search_recursive.cpp -o linear_search_recursive && "/c/ada lab/"linear_search_recursive
Enter number of elements: 4
Enter elements: 0 10 6 -1
Enter number to the found: -3
Not found

```

