linear search using recursion:

```
#include<iostream
    using namespace std;
    if (r < 1)
        return -1;
if (arr[1] == x)
return 1;
            return r;
        return recSearch(arr, 1 + 1, r - 1, x);
16 int main()
18
        int arr[] = {12, 34, 54, 2, 3}, i;
int n = sizeof(arr) / sizeof(arr[0]);
        int x;
cout<<"the array is\n";</pre>
21
        for(int i=0;i<n;i++)
        cout<<arr[i]<<endl;
cout<<"enter the element to be searched\n";</pre>
        cin>>x;
        int index = recSearch(arr, 0, n - 1, x);
if (index != -1)
        << index;
```

Output:

```
the array is

12

34

54

2

3

enter the element to be searched

54

Element is present at position 2

...Program finished with exit code 0

Press ENTER to exit console.
```