```
#include<iostream>
#include<algorithm>
using namespace std;
class SearchingAlgo{
    SearchingAlgo(int arr[], int size) {
       for(int i=0;i<size;i++) {</pre>
           cout<<arr[i]<<" ";
           this->arr[i]=arr[i];
    bool linerSearch(int n) {
       for(int i=0;i<size;i++) {</pre>
    bool recursiveLinear(int n) {
        return helperLinear(0,n);
    bool helperLinear(int idx,int n) {
       return arr[idx] == n | | helperLinear(idx+1, n);
    bool binarysearch(int n) {
       int start=0;
        while(start<=end){</pre>
            int mid=start+(end-start)/2;
            if(arr[mid] == n) return true;
```

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else end=mid-1;
    bool recurBinarySearch(int n) {
        return helperBinary(0, size-1, n);
    bool helperBinary(int start, int end, int n) {
        int mid=start+(end-start)/2;
        if(arr[mid] == n) return true;
        if(arr[mid] < n) return helperBinary(mid+1, end, n);</pre>
        return helperBinary(start,mid-1,n);
int main(){
int arr[] = \{1,2,3,4,5,-1,0\};
SearchingAlgo s(arr,7);
cout<<s.linerSearch(3)<<endl;</pre>
cout<<s.linerSearch(6)<<endl;</pre>
cout<<s.binarysearch(5)<<endl;</pre>
cout<<s.binarysearch(6)<<endl;</pre>
cout<<s.recurBinarySearch(-1)<<endl;
cout<<s.recurBinarySearch(5)<<endl;</pre>
```