https://course.acciojob.com/idle?question=3a25fd86-4629-49a4-ae3 9-abb4978e4a4d

- MEDIUM
- Max Score: 40 Points

Search a node in BST

You are given the root of a binary search tree (BST) and an integer val.

Find the node in the BST that the node's value equals val and return true. If such a node does not exist, return false.

Input Format

The first line inputs n, the number of nodes and x, value of the node to find.

The second line inputs the value of ${\tt N}$ nodes of the BST.

Output Format

Print "YES" if node is present else "NO" in a new line.

Example 1

```
Input
7 87
2 81 42 87 90 42 45 66
```

Output

YES

Explaination

```
81
/ \
42 87
/ \ \
45 66 90
```

As 87 is present in the given nodes , so the output will be YES.

Example 2

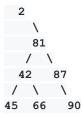
Input

```
7 69
2 81 42 87 90 42 45 66
```

Output

NO

Explaination



As 69 is not present in the given nodes , so the output will be NO.

Constraints

```
1 <= N <= 1000
```

1000 <= val[node] <= 1000

Topic Tags

Recursion

- Trees
- BST

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;
class Node
  int data;
  Node next ,prev;
  Node(int data, Node next, Node prev)
  {
     this.data = data;
     this.next = next;
     this.prev = prev;
  }
  Node() {}
public class Main
 static Node insert(Node root,int n)
```

```
if(root==null)
   root=new Node(n,null,null);
  return root;
 else if(n< root.data)
   root.prev= insert( root.prev, n);
  else if(n>root.data)
   root.next= insert( root.next, n);
  return root;
static void seartch(Node root,int n)
  if(root==null)
System.out.print("NO");
   return;
 else if(n< root.data)
  seartch( root.prev, n);
 else if(n>root.data)
    seartch( root.next, n);
else if(n==root.data)
  System.out.print("YES");
   return;
```