Construct BST from preorder

class Solution {

public TreeNode bstFromPreorder(int[] preorder)

{

return construct(preorder,0,preorder.length-1);

}

public TreeNode construct(int[] preorder,int start,int end)

{

if(start>end )

return null;

if(start==end)

return new TreeNode(preorder[start]);

TreeNode root=new TreeNode(preorder[start]);

int i=start+1;

for( ;i<=end ;i++)

{

if(preorder[i]>preorder[start])

{

break;

}

}

root.left=construct(preorder,start+1,i-1);

root.right=construct(preorder,i,end);

return root;

}

}