

(Q17) merge two BST.

Algo.

- Convert the BSTs into arrays using inorder traversal.
- merge arrays
- Convert to BST.

Conform these

Node

```
mergeBST(Node n1, Node n2){  
    if (n1 == null) return n2;  
    if (n2 == null) return n1;  
    int [] a1 = toArray(n1);  
    int [] a2 = toArray(n2);  
    int [] result = mergeArrays(a1, a2);  
    return toBST(result, 0, result.length - 1);  
}  
  
int [] toArray(Node n){  
    List<Integer> l = new ArrayList<>();  
    toArray(n, l);  
    return l.toArray();  
}  
  
void toArray(Node n, List<Integer> l){  
    if (n == null) return null;  
    toArray(n.left, l);  
    l.add(n.value);  
    toArray(n.right, l);  
}  
  
int[] mergeArrays(int[] a, int[] b){  
    int i=0, j=0; int[] result = new int[a.length + b.length];  
    while (i < a.length & j < b.length){  
        if (a[i] <= b[j]){  
            result[k] = a[i]; i++;  
        } else { result[k] = b[j]; j++; }  
    }  
}
```