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Problem 297: Serialize and Deserialize Binary Tree

Success   Details >

Runtime: **7 ms**, faster than **92.72%** of Java online sub
and Deserialize Binary Tree.

Memory Usage: **41.2 MB**, less than **21.90%** of Java
Serialize and Deserialize Binary Tree.

Next challenges:

Encode and Decode Strings   Serialize and Deserial

Find Duplicate Subtrees   Serialize and Deserialize

Show off your acceptance: [f] [t] [in]

Time Submitted	Status	Runtime	M
a few seconds ago	Accepted	7 ms	4
a minute ago	Accepted	7 ms	4
3 minutes ago	Accepted	8 ms	4

```java
10    public class Codec {
11
12        public void serialize(TreeNode r, StringBuilder sb) {
13            if(r == null)
14                sb.append("null").append(",");
15            if(r != null) {
16                sb.append(r.val).append(",");
17                serialize(r.left, sb);
18                serialize(r.right, sb);
19            }
20        }
21
22        public String serialize(TreeNode root) {
23            StringBuilder stringBuilder = new StringBuilder();
24            serialize(root, stringBuilder);
25            return stringBuilder.toString();
26        }
27
28        public TreeNode deserialize(Queue<String> q) {
29            String value = q.remove();
30            if(value.equals("null"))
31                return null;
32            else {
33                TreeNode node = new TreeNode(Integer.valueOf(value));
34                node.left = deserialize(q);
35                node.right = deserialize(q);
36                return node;
37            }
38        }
39
40        public TreeNode deserialize(String data) {
41            Queue<String> list = new LinkedList<>();
42            list.addAll(Arrays.asList(data.split(",")));
43            return deserialize(list);
44        }
45    }
```