

1.b.) Describe how you could use `makeTree` to test `getSum`. If you need to make any modifications to `makeTree` for this testing, explain them, possibly with pseudocode.

- Pass outputs from `makeTree` into `getSum`
- Modify `makeTree` to record the number of Nodes created, and store this number somewhere
- The expected from from `getSum` should be in the range $[0, 9*N]$, where N is the number of nodes in the tree. This follows from the fact that every node can contain a value in the range $[0, 10)$. If the sum from `getSum` is outside of this range, the test fails.
- Alternatively, record the specific values used in the nodes, and check that the sum from `getSum` equals the sum of these specific values. The tests would be more specific (good), but the generator would be a lot more complicated and specialized to `getSum` (bad).

1.c.) Now consider the following method, which is intended to get the depth of a given tree:

```
public static int getDepth(final Node root) { ... }
```

Describe how you could use `makeTree` to test `getDepth`. If you need to make any modifications to `makeTree` for this testing, explain them, possibly with pseudocode.

- Pass the output of `makeTree` to `getDepth`
- The returned depth from `getDepth` should be in the range $0 \leq \text{returnedDepth} \leq \text{maxDepth}$, where `maxDepth` is the parameter initially passed to `makeTree`. If `returnedDepth` is outside of this range, the test fails.
- No modifications to `makeTree` are necessary