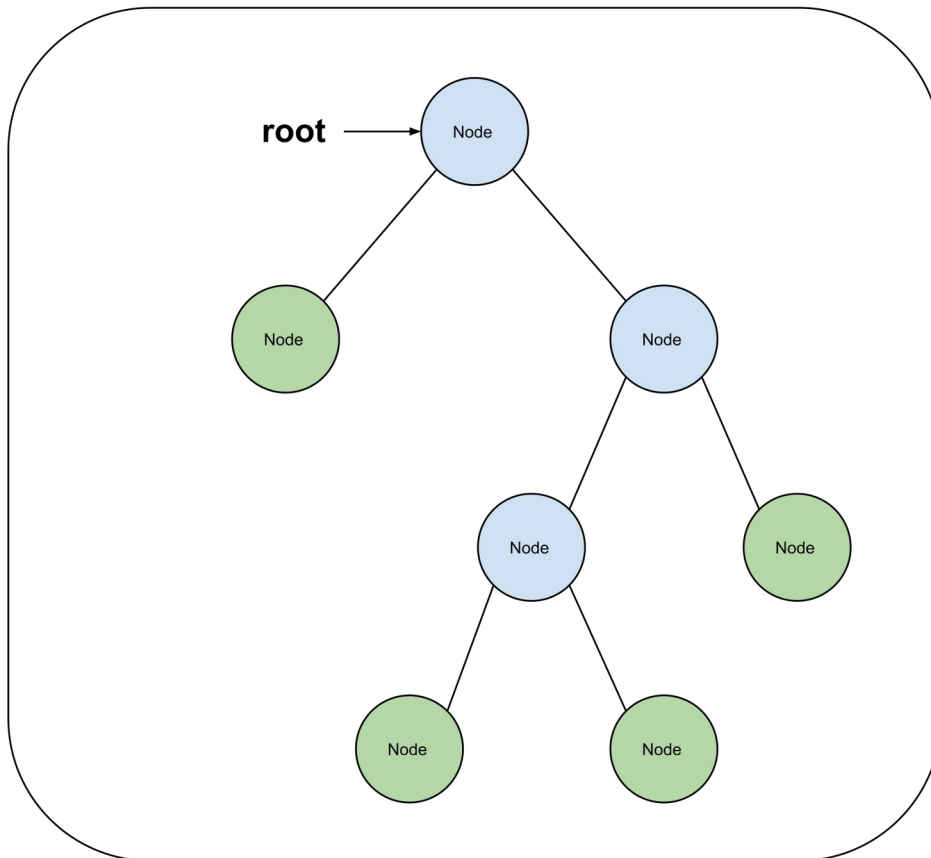


Tree comparison

Tree

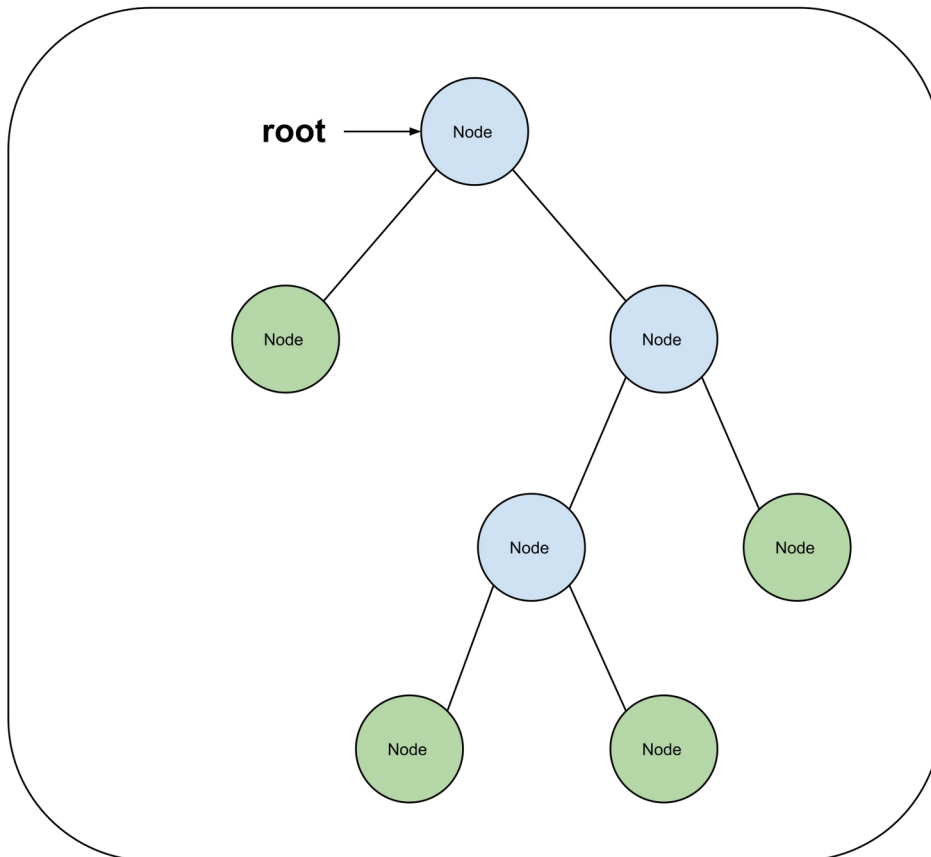


A "Tree" is **not** a "Node"



Tree comparison

Tree



A “Tree” is **not** a “Node”

Leaves: Compare “val”

Nodes: Compare “left” and “right”

Tree: Compare “root”



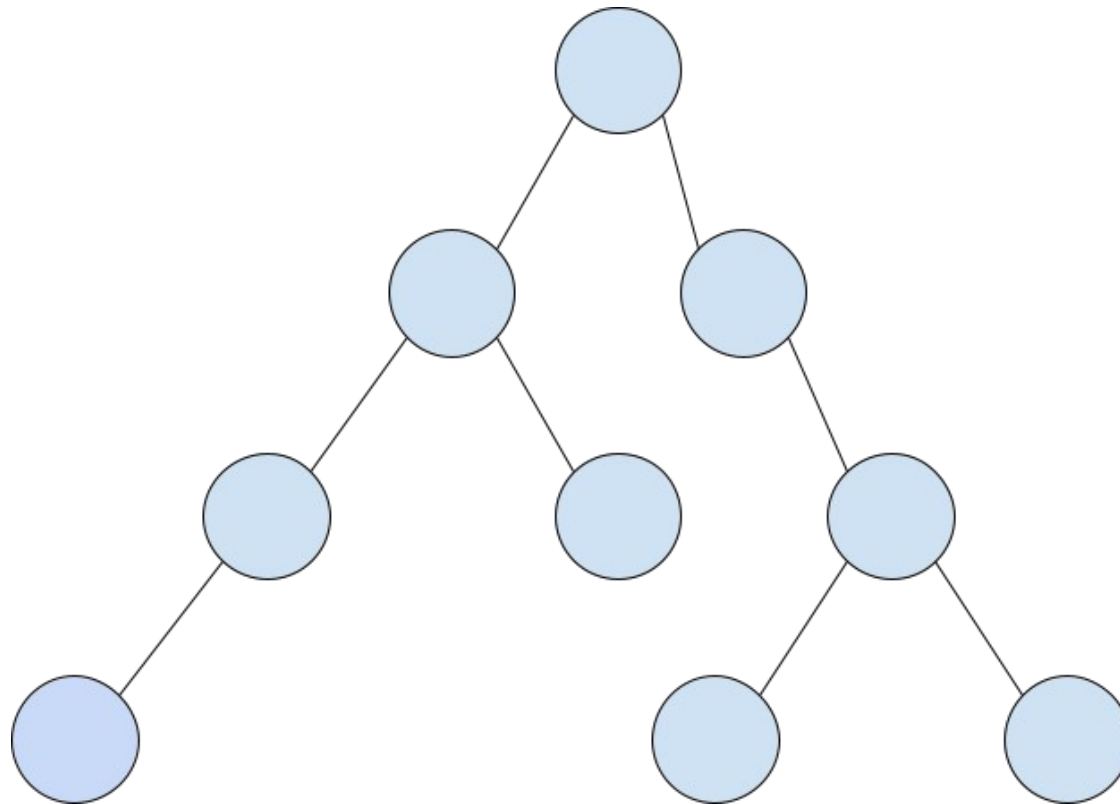
Iterative in-order traversal

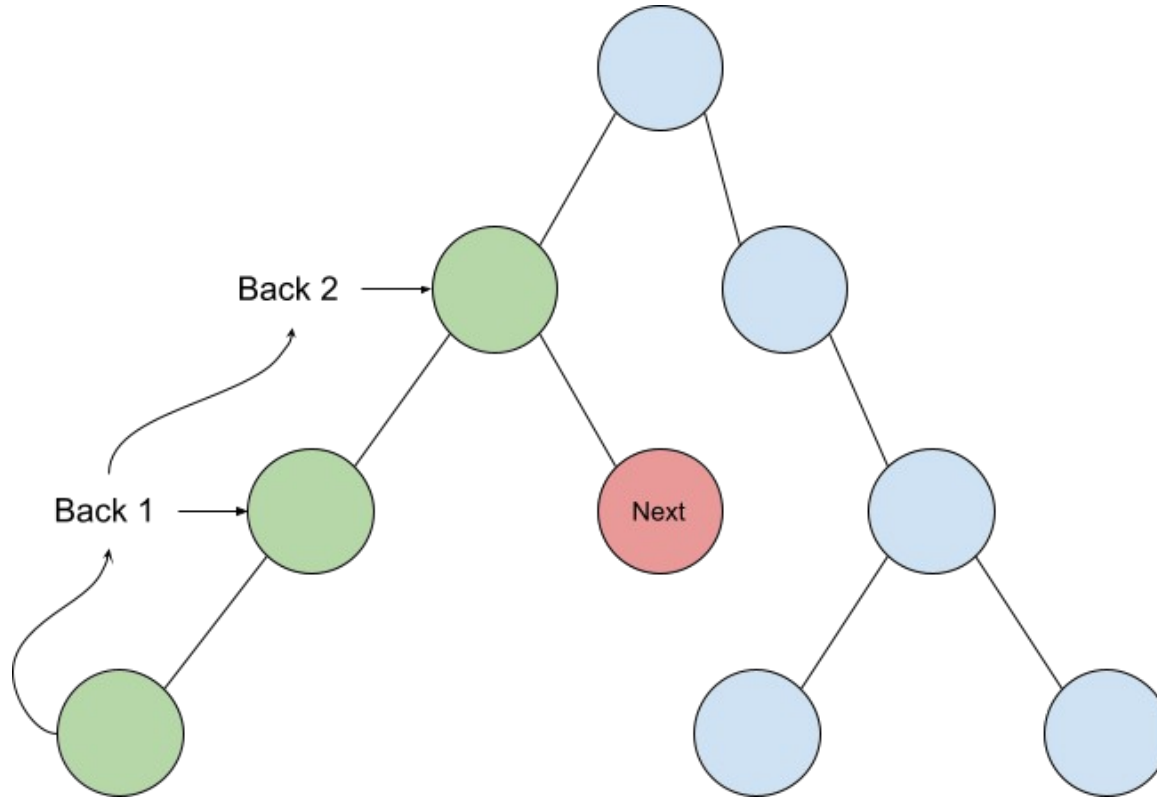


Algorithm:

- Descend as far as possible on the left
- Tag the nodes encountered during the descent for future exploration







Decision tree



Various clinical parameters
measured on a patient: Fever?
Arrhythmia? Rash?...



Decision tree



Various clinical parameters
measured on a patient: Fever?
Arrhythmia? Rash?...



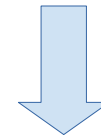
Input = Vector of Booleans:
Model of the patient



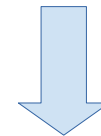
Decision tree



Various clinical parameters
measured on a patient: Fever?
Arrhythmia? Rash?...



Input = Vector of Booleans:
Model of the patient



Output = Boolean:
Should this drug be used?



Decision tree



Various clinical parameters
measured on a patient: Fever?
Arrhythmia? Rash?...



Input = Vector of Booleans:
Model of the patient



Output = Boolean:
Should this drug be used?

```
public abstract boolean predict(boolean [] features);
```

Decision tree: Should this drug be used?

