

Trees In Java

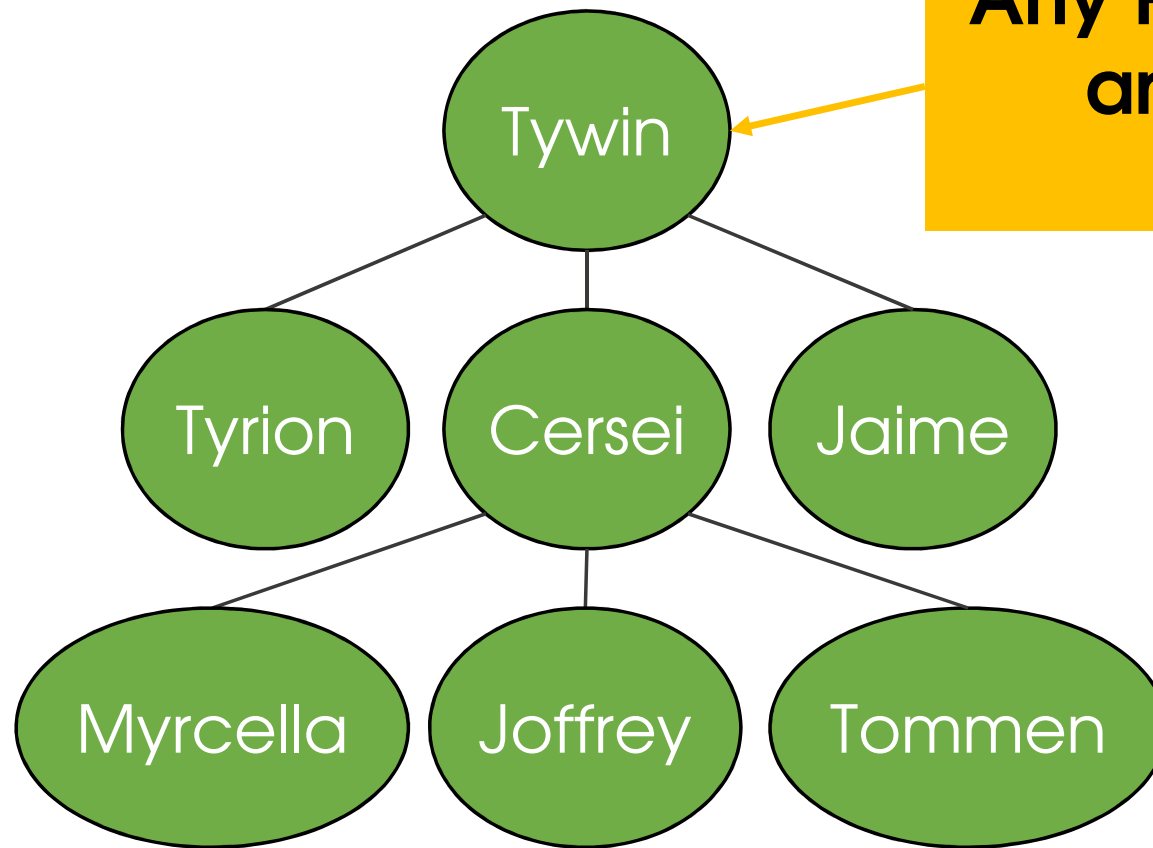




By the end of this video you will be able to...

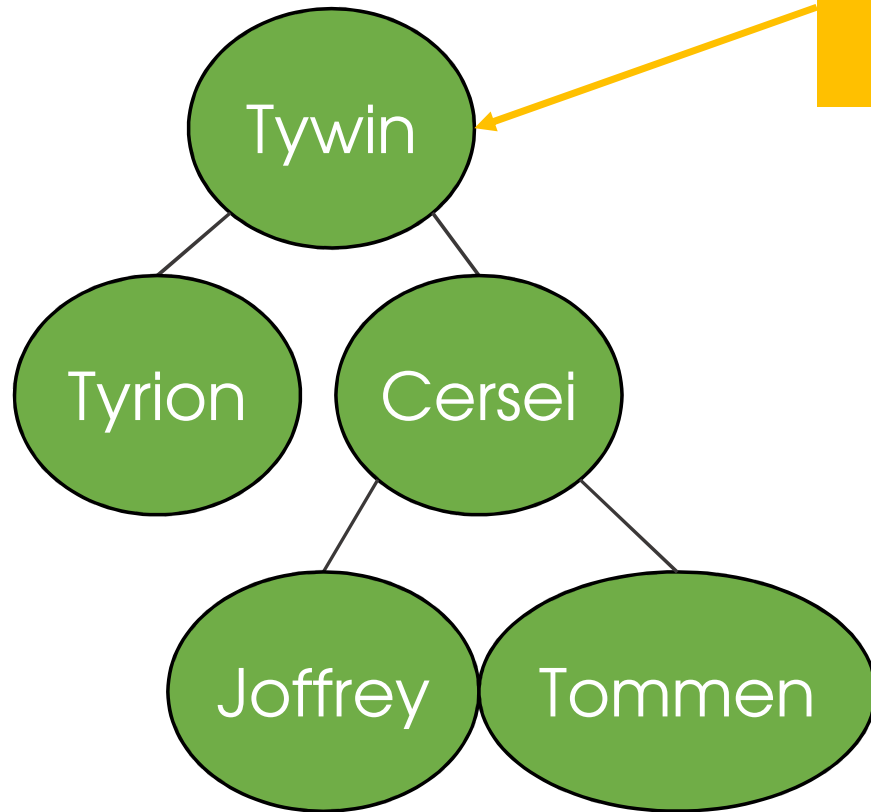
- Define a Binary Tree
- Author a TreeNode class

Generic Tree



**Any Parent can have
any number of
children**

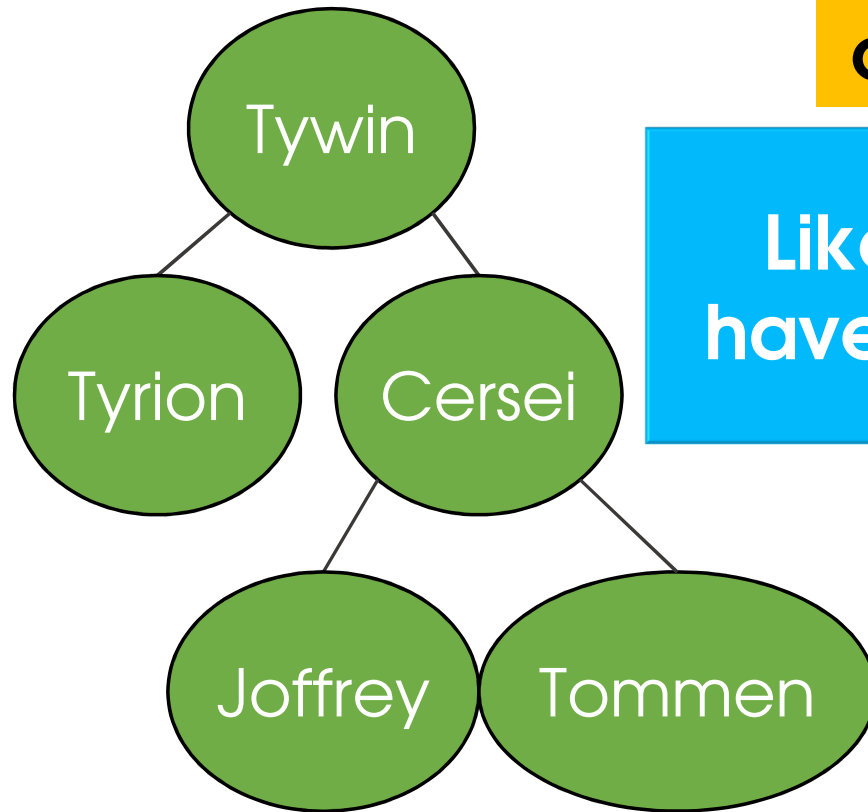
Binary Tree



Any Parent can have
at most two children

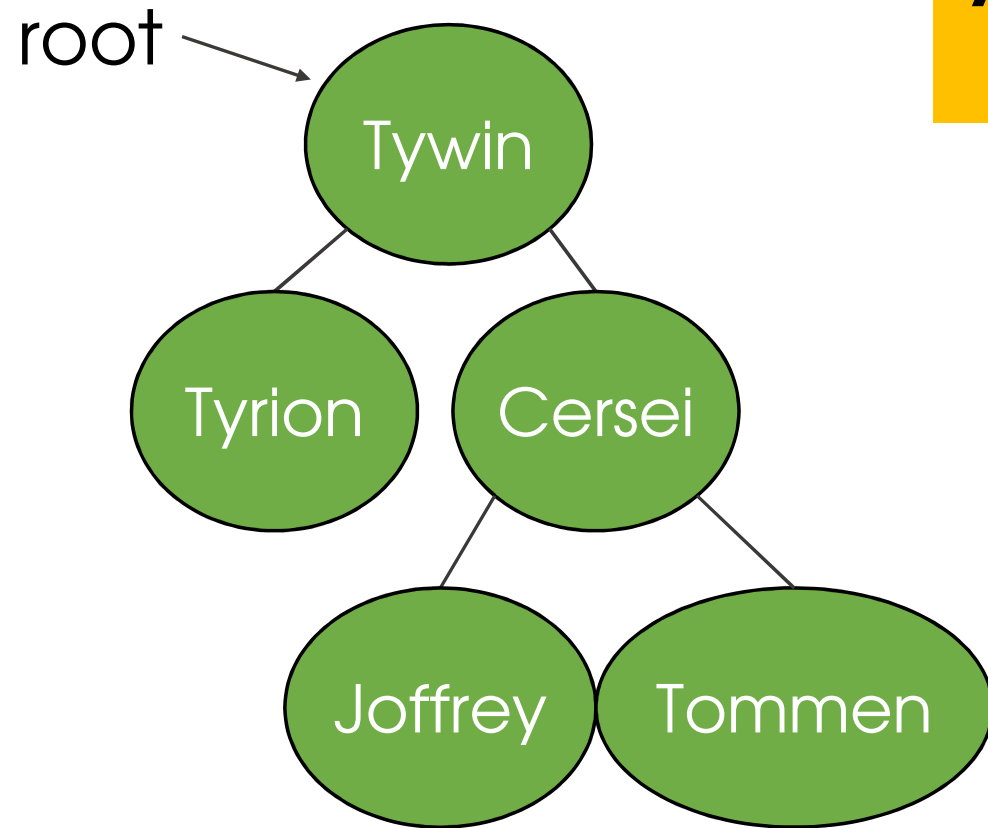
Binary Tree Code

How do we
construct a tree?



Like Linked Lists, Trees
have a "Linked Structure"

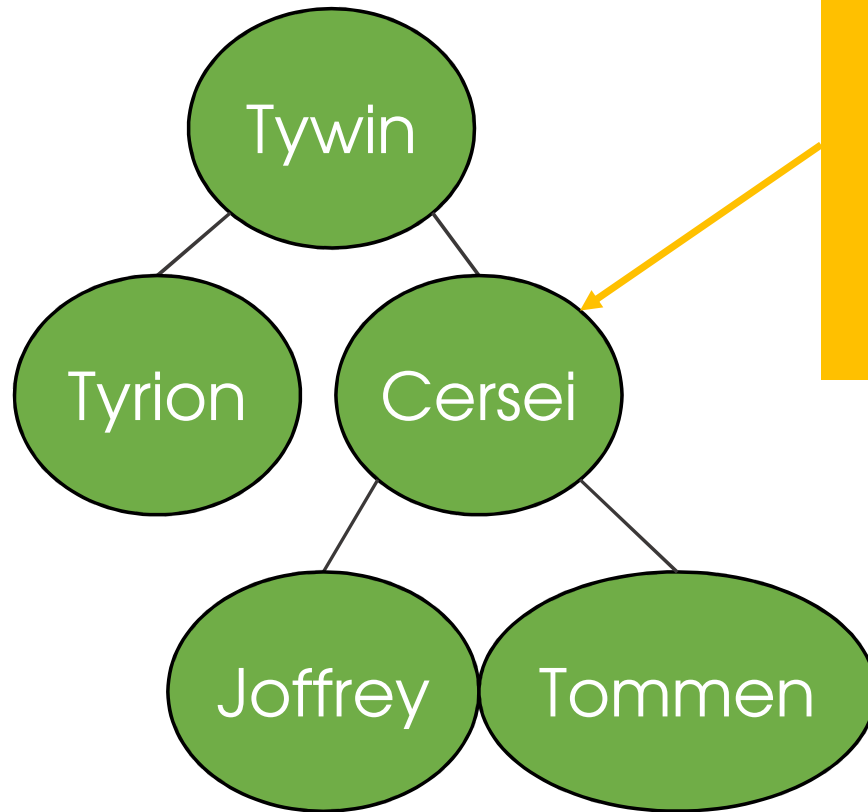
Binary Tree



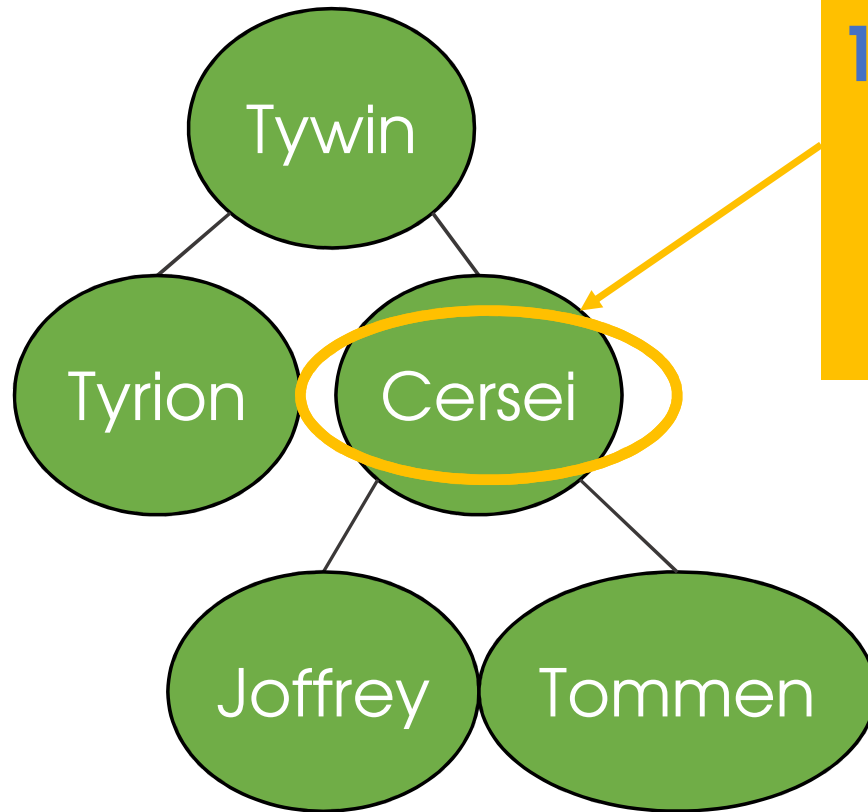
**A tree just needs
a root node**

Binary Tree Nodes

Each node needs:

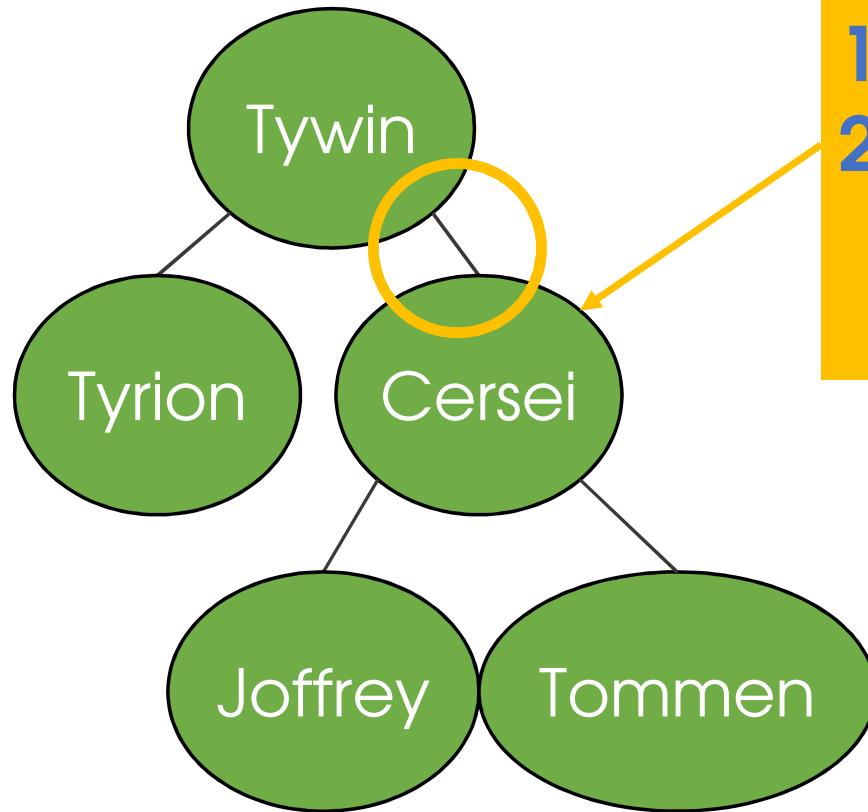


Binary Tree Nodes



Each node needs:
1. A value

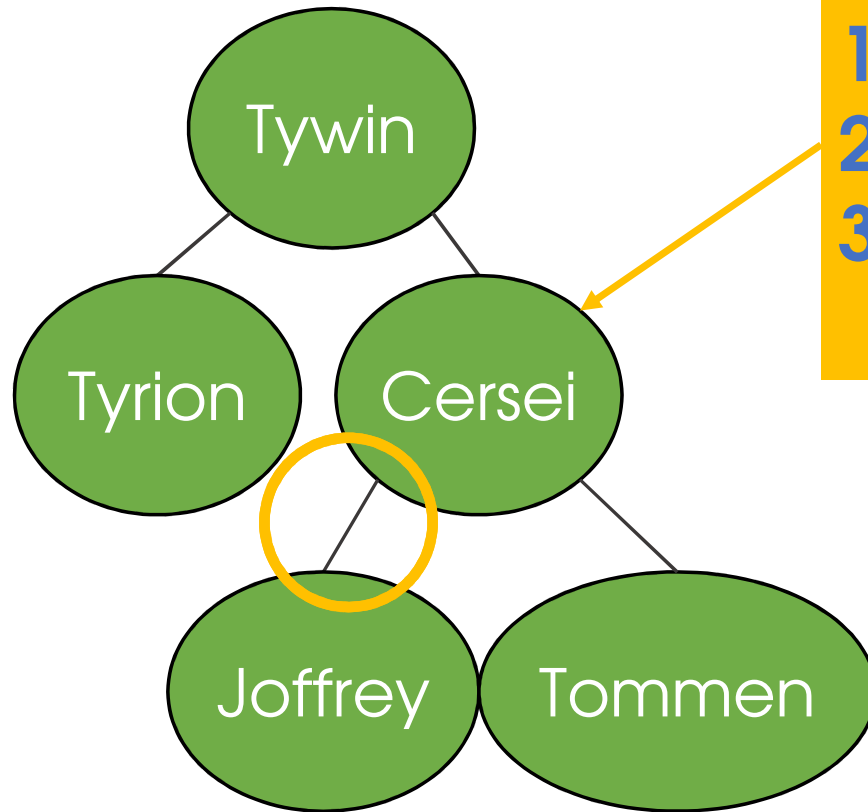
Binary Tree Nodes



Each node needs:

1. A value
2. A parent

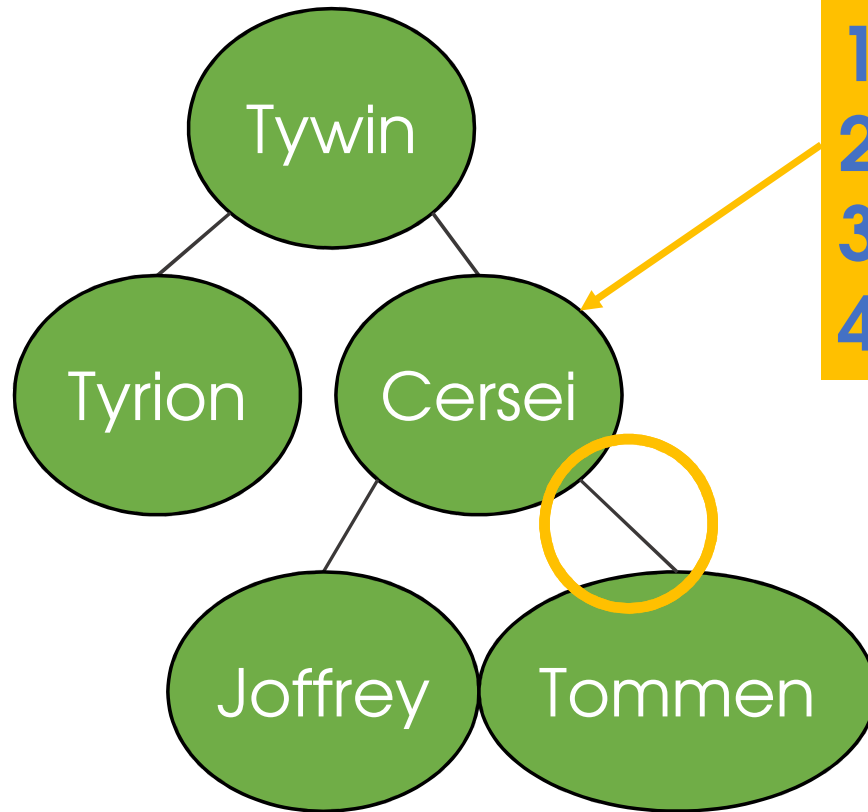
Binary Tree Nodes



Each node needs:

1. A value
2. A parent
3. A left child

Binary Tree Nodes



Each node needs:

1. A value
2. A parent
3. A left child
4. A right child