A tree data structure can be defined [recursively](https://en.wikipedia.org/wiki/Recursion) (locally) as a collection of [nodes](https://en.wikipedia.org/wiki/Node_(computer_science)) (starting at a root node), where each node is a data structure consisting of a value, together with a list of references to nodes (the "children"), with the constraints that no reference is duplicated, and none points to the root