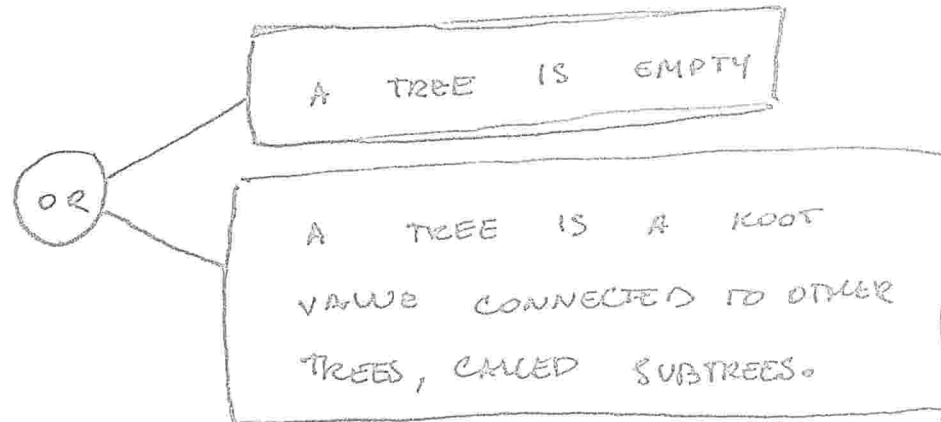


TREES

FOR DATA WHICH IS:

- NON-LINEAR
- HIERARCHICAL

RECURSIVE DEFINITION OF A TREE:TERMINOLOGY

INTERNAL VALUE	A NODE WITH CHILDREN
SIZE	# NODES OF THE TREE
HEIGHT	MAX # VERTICES FROM THE TOP TO THE BOTTOM
CHILD, PARENT	STATUS OF THE NODES ON THE BOTTOM AND TOP OF THE EDGE (RESP.).
DESCENDANT, ANCESTOR	AN ELEMENT OF A GIVEN SUBTREE CORRESPONDING TO A PARTICULAR NODE
LEAF	AN ELEMENT OF THE TREE WITHOUT CHILDREN.

TREE RECURSION PATTERN:

DEF f (SELF):

→ IF SELF.IS_EMPTY():

→ ...

→ ELSE:

→ ... SELF.ROOT ...

→ FOR SUBTREE IN SELF.SUBTREES:

→ ... f (SUBTREE) ...
