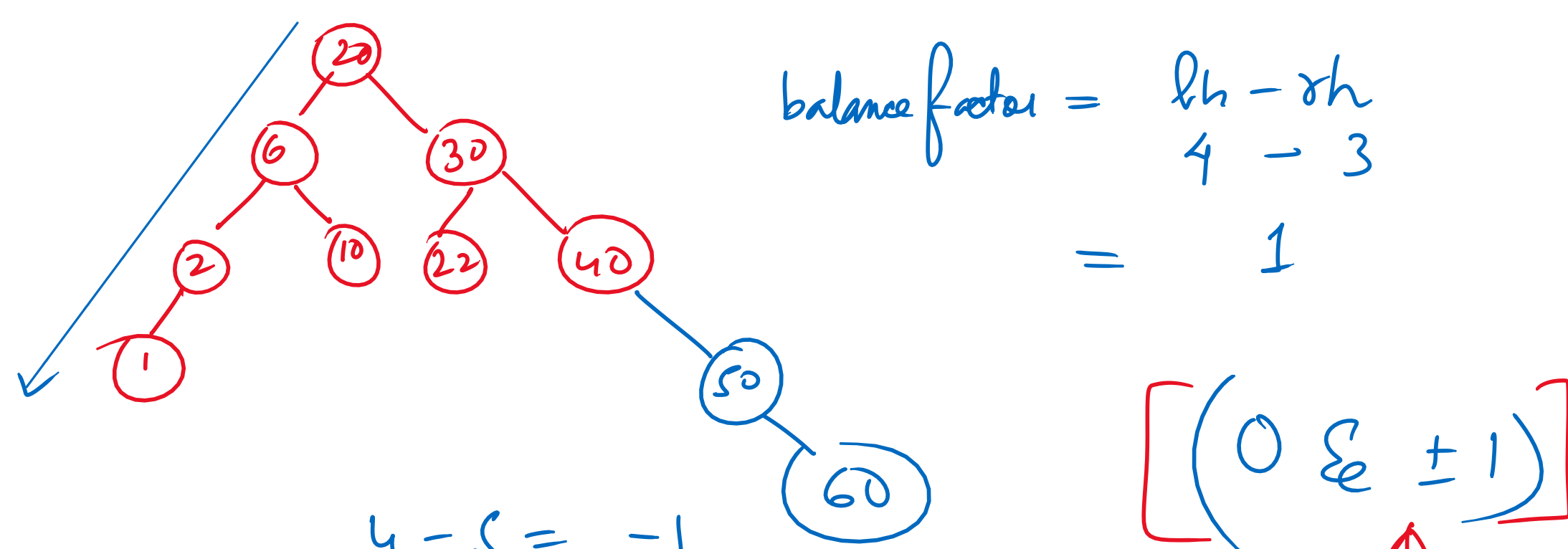
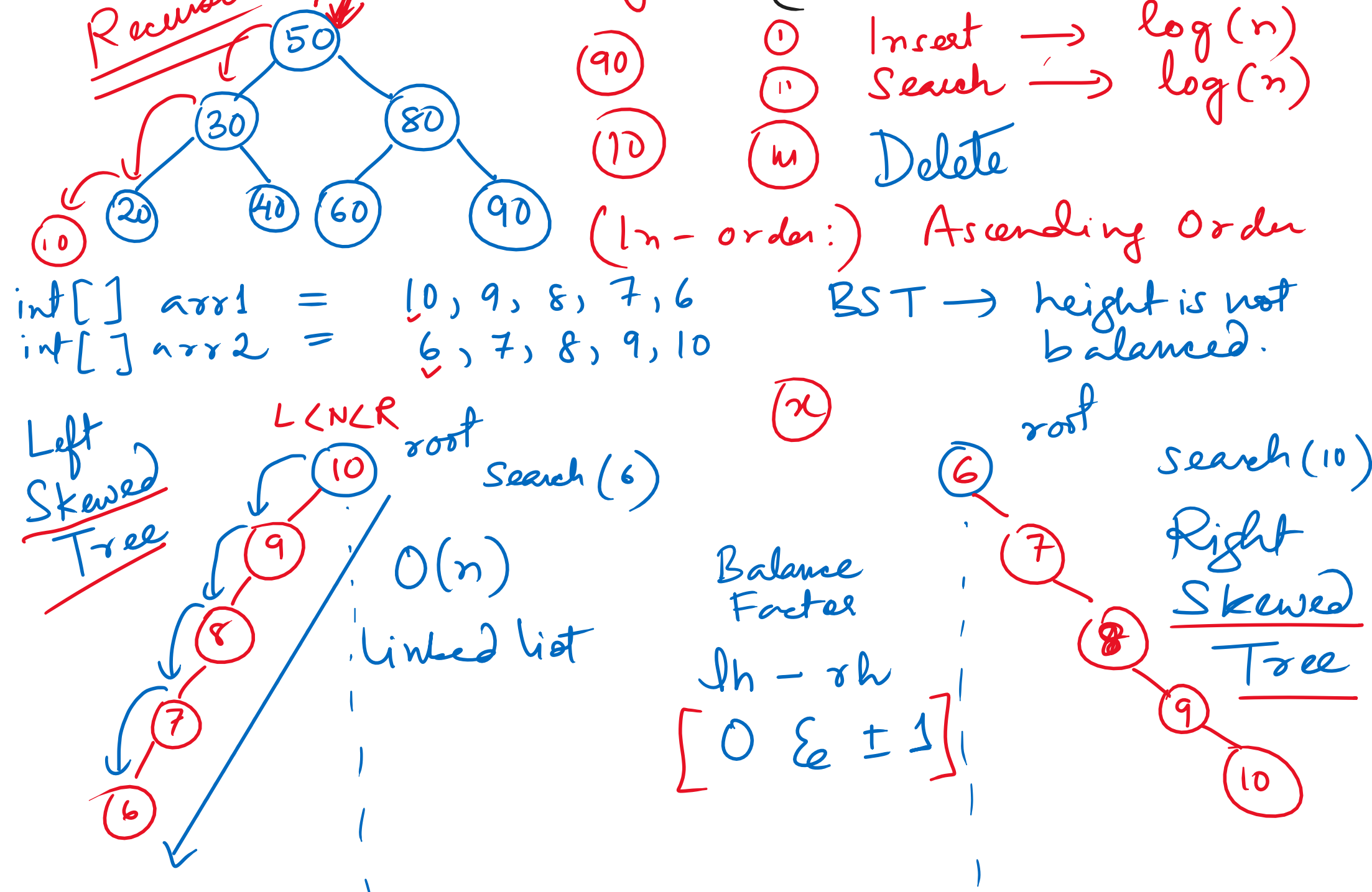


Binary Search Trees: (BST) ($L < N < R$)

It is a special type of Binary Tree where each node follows a unique property. $\{ \text{Left} < \text{Node} < \text{Right} \}$

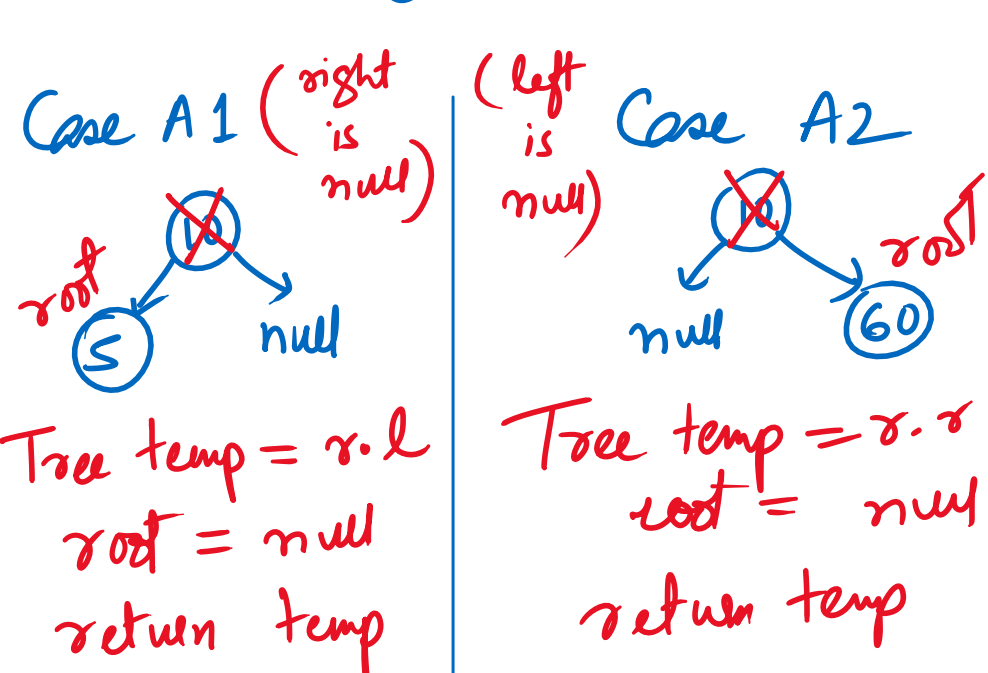


AVL Tree
Red Black Tree

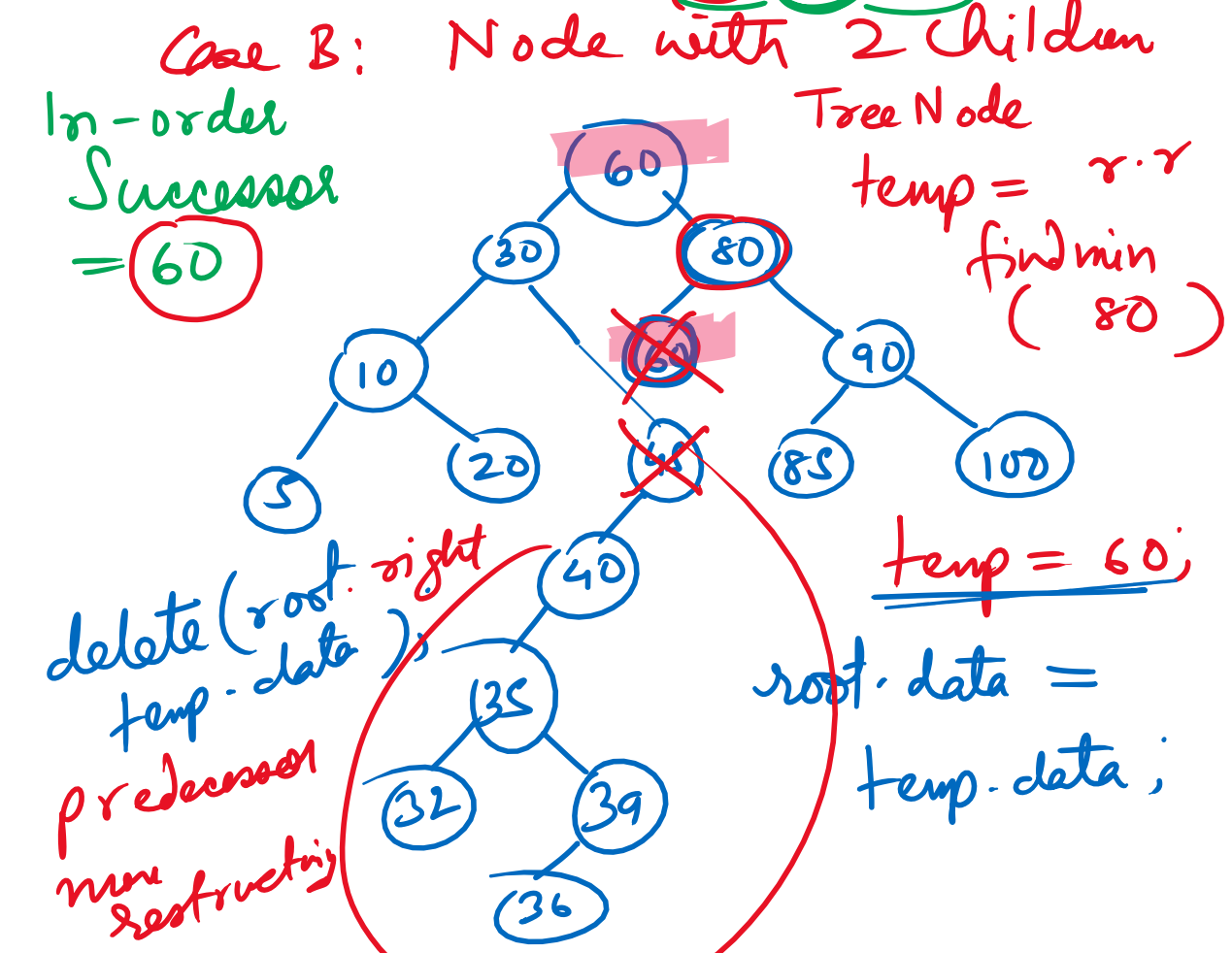
strictly h.b.

Delete Operation in BST

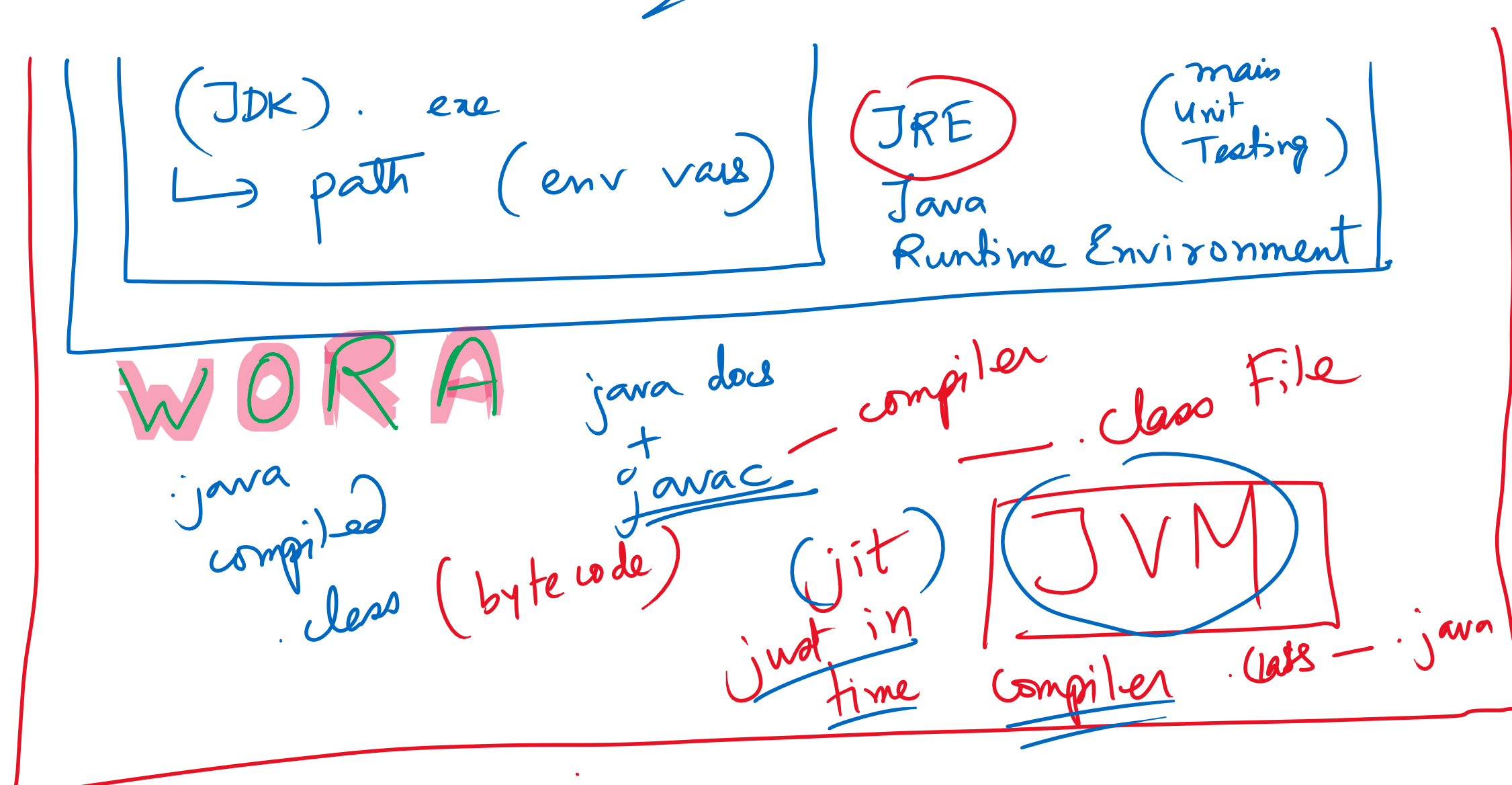
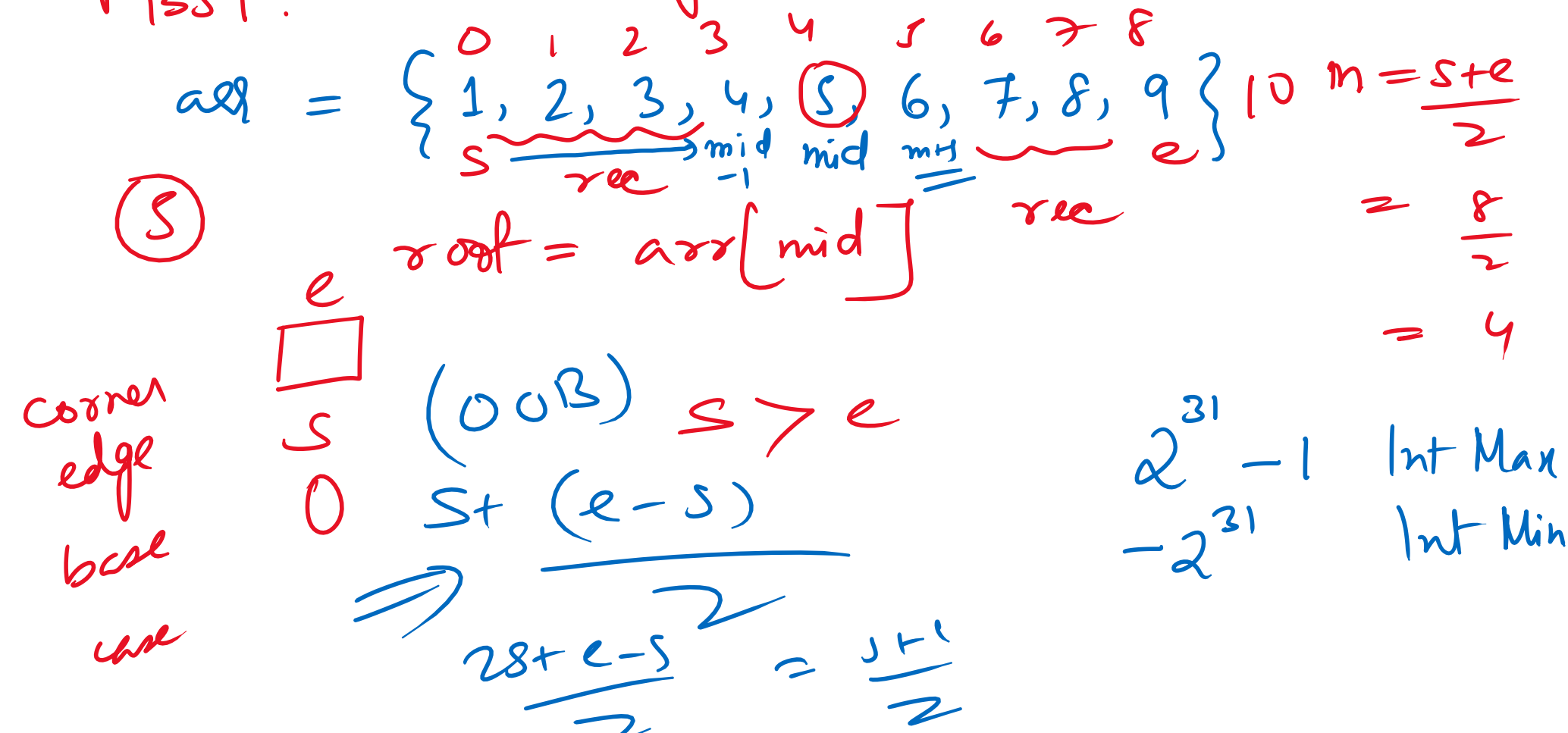
Case A: Node with only 1 child.



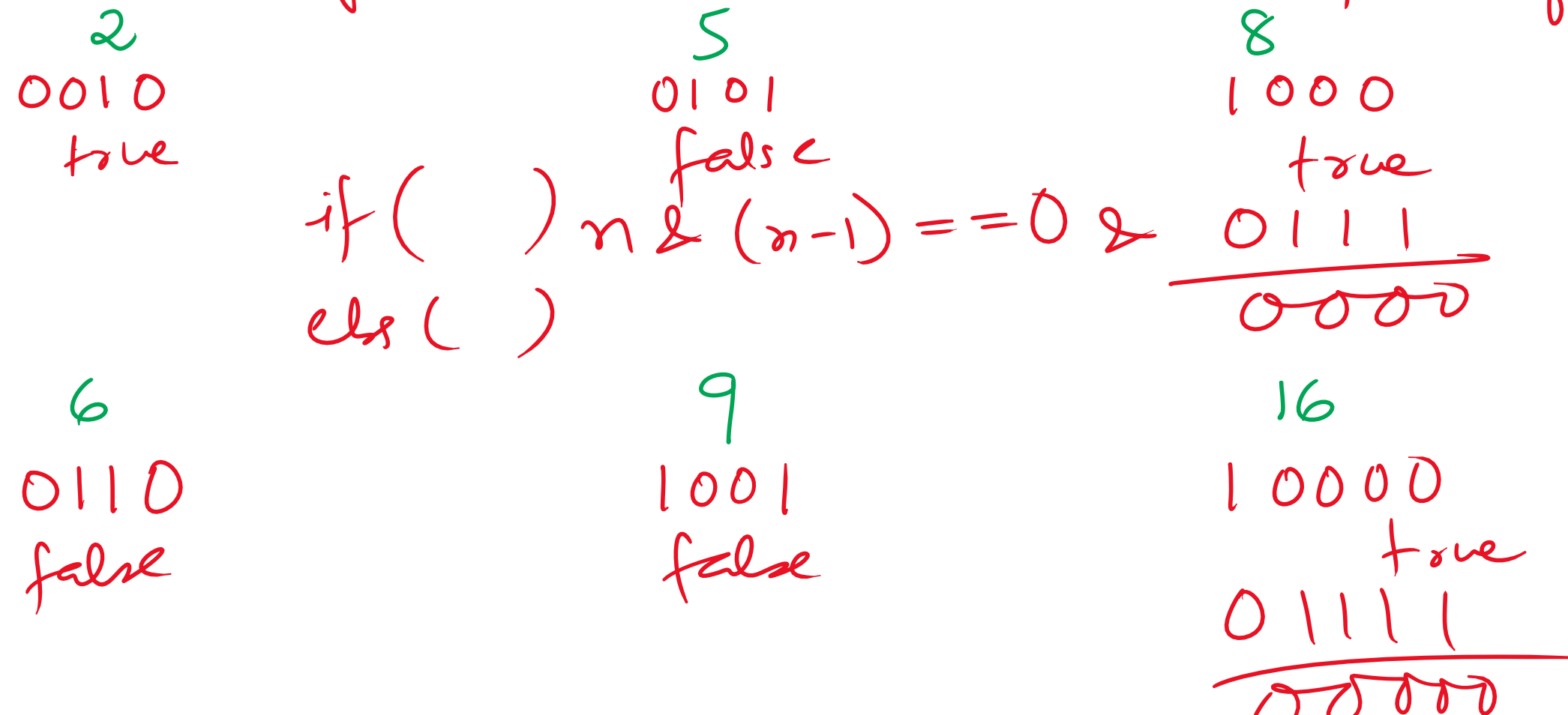
Case B: Node with 2 children



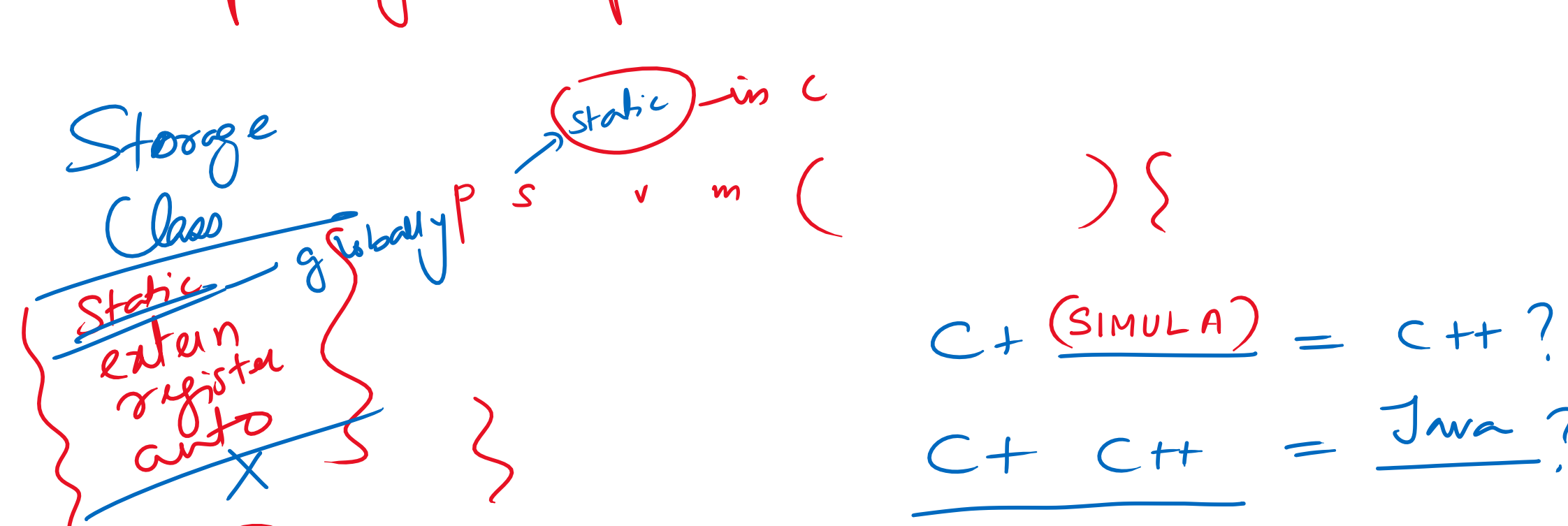
* Given a sorted array: convert it to a balanced BST.



* How can you check whether a no is a power of 2?



- * Tries
- * Back Tracking
- * Heaps
- * Graphs
- * Dynamic Programming
- * Greedy Algorithms
- * Exception Handling
- * File Handling
- * Input/Output operations



Bjarne Stroustrup \rightarrow Denmark

