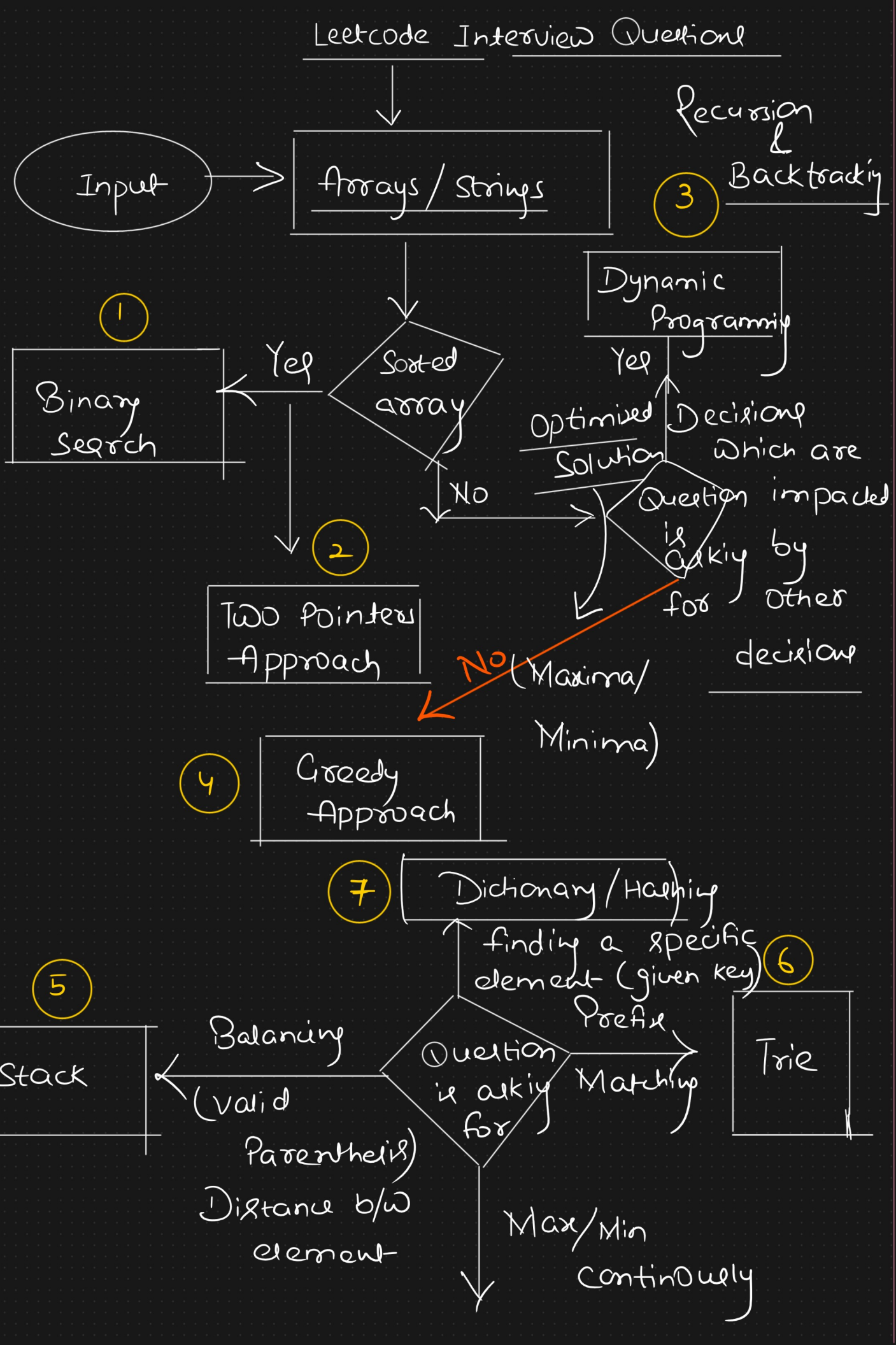

Leetcode Interview Questions
Input
Arrays / Strings
Recursion & Backtracking
3
Dynamic Programming
1
Binary Search
Yes
Sorted array
Yes
Optimized Solution
Decisions which are impacted by other decisions
No
Question is asking for
2
Two Pointers Approach
No (Maxima/ Minima)
4
Greedy Approach
7
Dictionary / Hashing
finding a specific element (given key)
6
Trie
Prefix Matching
5
Stack
Balancing (valid Parenthesis)
Question is asking for
Distance b/w element
Max/Min continously

8

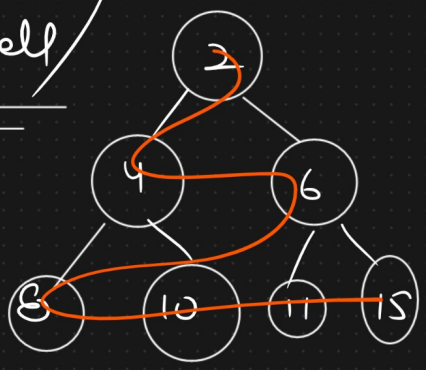
Heap Data Structure

- Maxheap
- Minheap

Input → Tree (Binary)

Question is asking for

- No → 11 DFS
- Subarrays or Substrings → 9 Sliding Window
- Yes, Specific Level / Depth → 10 BFS



Level Order Traversal

Yes → finding out shortest distance

Question is asking for

Divide & conquer

Question is asking for → Dividing the bigger Problem into Subproblem

Ideal case → Time ↓ Space ↓

Trade off → Time ↓ Space ↑

Recursive code ⟶ Recurrence Relation

T(n)

fact(n):

① Base case condition

c ⟶ n<=1 → return 1

② n>1 → Repetitive task

T(n-1)+c

return n * fact(n-1);

5!

↳ 5 * 4!

↳ 4 * 3!

↳ 3 x 2!

↳ 2 x 1!

1

Recurrence Relation

$$T(n) = \begin{cases} c & n = 1 \\ T(n-1) + c & n \geq 1 \end{cases}$$

$$T(n) = O(n)$$