

$[0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1]$

$$BS = \log_2 N$$

$$\text{Tree} = \log_2 N \quad O(N)$$

- int
- char

- String

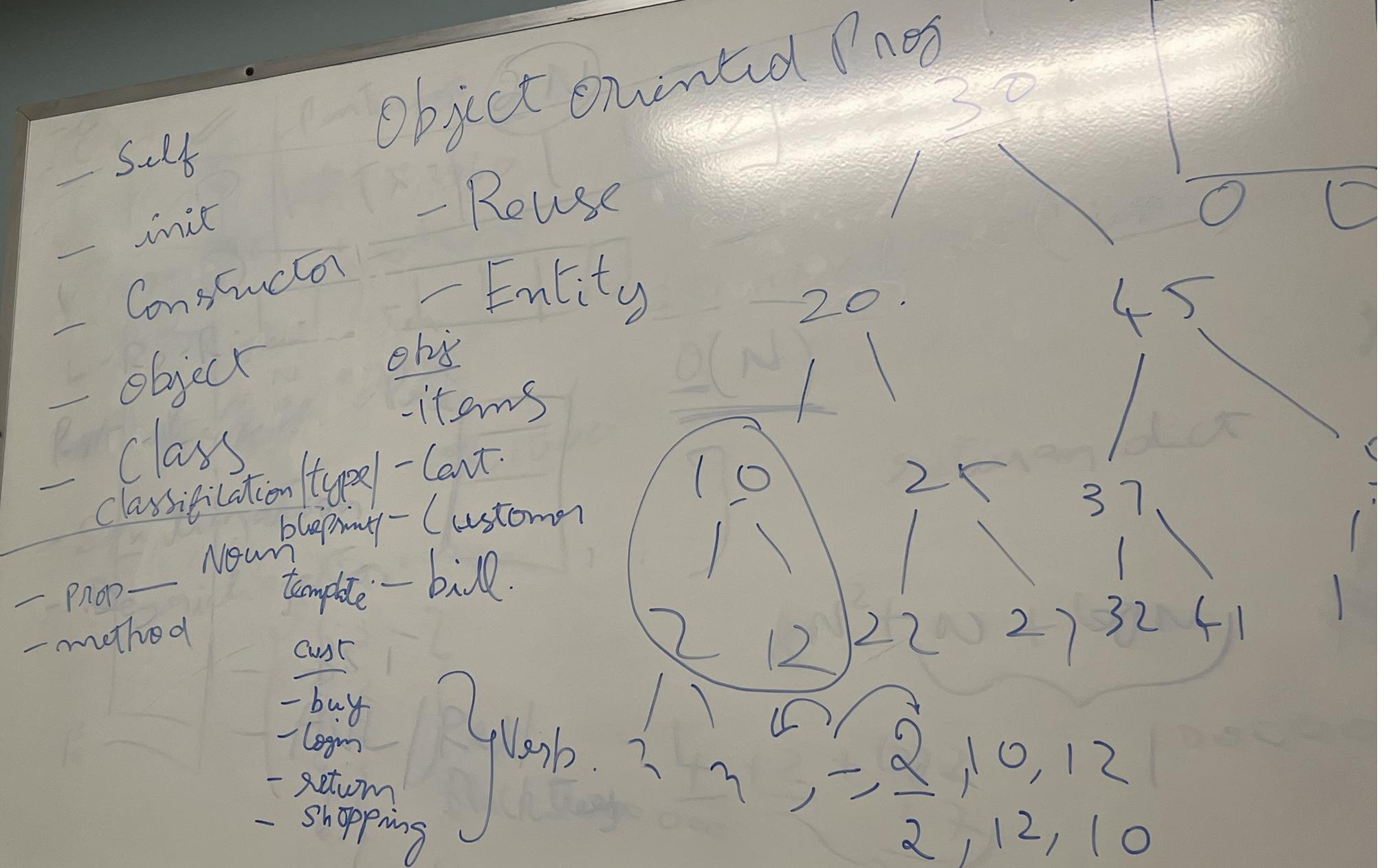
Wrapper class

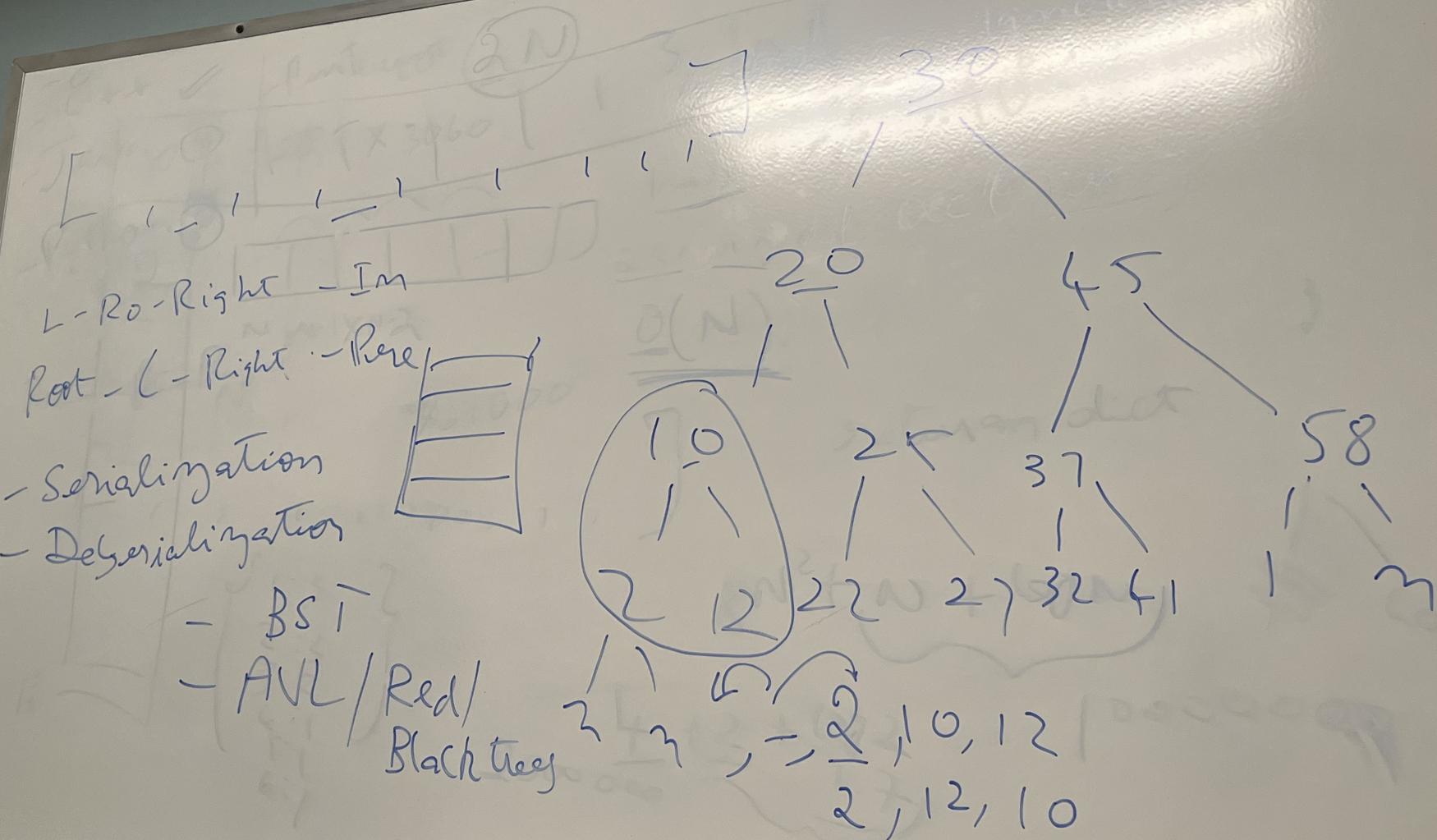
String str = "Hi!"

- Student

- List

str.length()

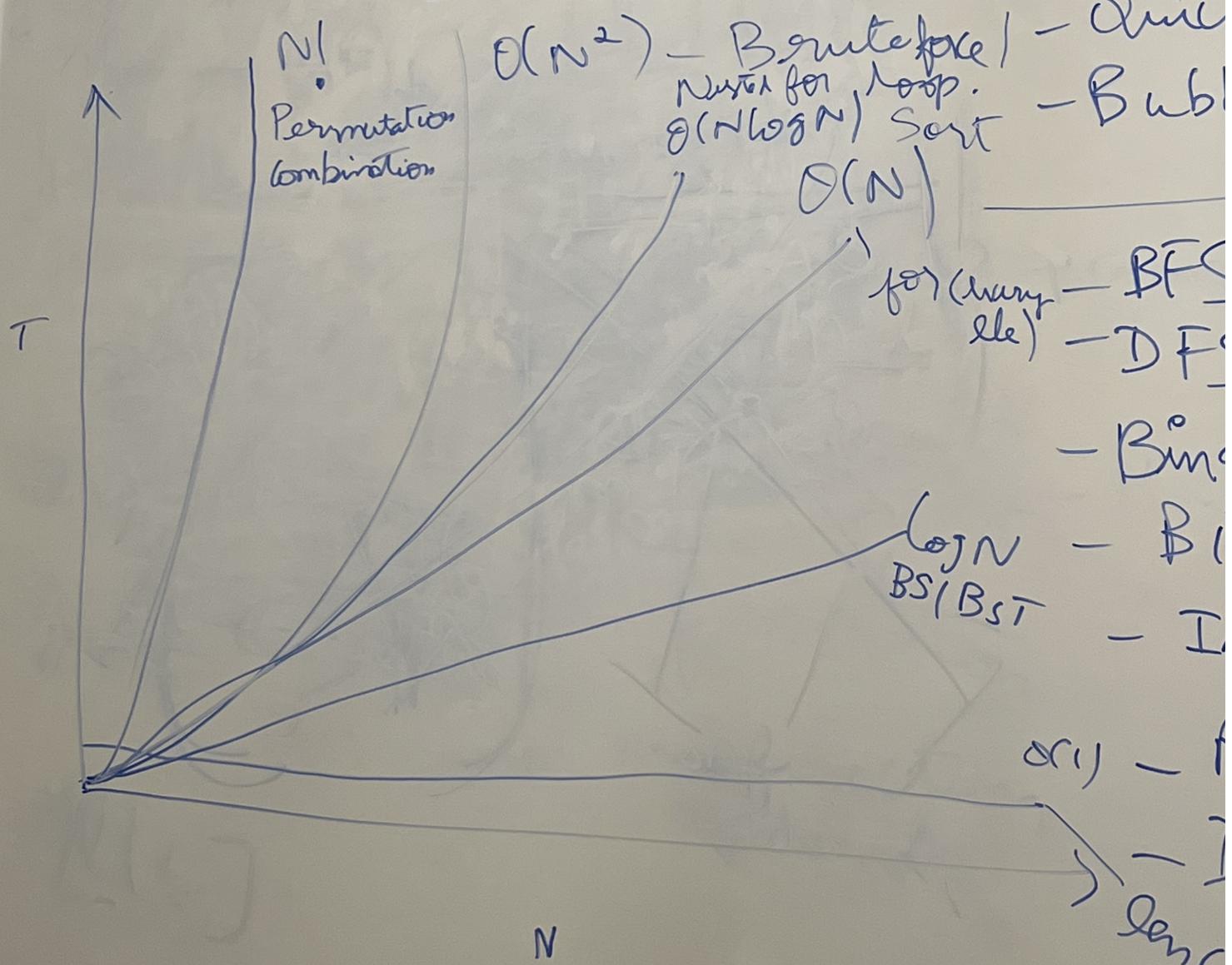




$\{0, 0, 1, 1, 1, 1, 1, 1, 1, 1\}$

$$BS = \log_2 N$$

$$\text{Tree} = \frac{\log N}{2} \quad O(N)$$



$l = [2, 1, 4, 1, 3, 2, 5, 6, 1, 3]$ Algo
 $O(1)$ Base pointer K V
 $h \{ 1 : 3 \}$
 $2 : 2$
 $3 : 2$
 $4 : 1$
 $5 : 1$
 $6 : 1$

$O(n)$ Sort
 - Merge
 - Quick
 - Bubble

$K = 8$
 $e \rightarrow \text{hashCode}$
 \downarrow
 insertion
 \downarrow
 hash function formula

- DS
- Array
 - Linked list
 - Trees
 - Heaps
 - Tries
 - Graph
 - Stack
 - Queue
 - Hashmap / Set
- Recursion (Memo)
- DP



SMART kapp



Download



Snapshots

- English
- 12:10 - Penalty
- GIT - HW PORTAL
- MON - THUR - 12:1 am (night) - OH
- 3 - 5:30pm Sunday - Mock
- Leetcode



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