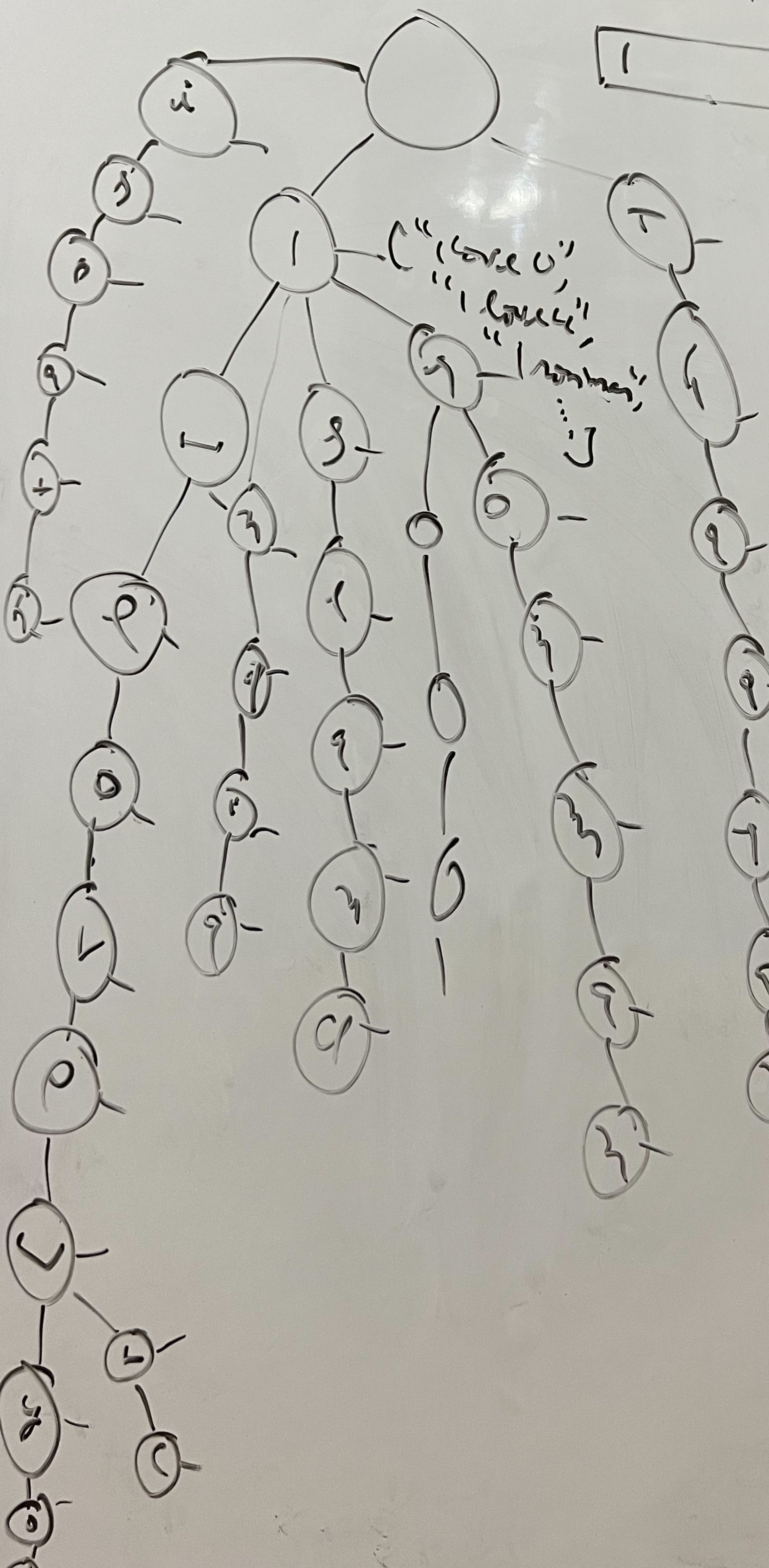
Tries

O(1)

{ hm } 26
128
/.



Auto complete System

d M |M|

"I love you" - 5 +1

"I love leetcode" - 7

"island" - 3

"ironman" - 3

"is path" - 1

"I love India" - 1

"India" - 2

"Thaarani" - 3

M "x"

$N^{(x)}$ == x N log k

Thaarani - M "x" log k

__init__(self, words, freq)

lambda x: d[x]

sorted(d, key=lambda x: (-d[x], x))

I love India

I ironman 3

"Startswith("I")

"ironman" 3

"I love U" 5

"I love LC" 7

N items

"I love U"

LRU Cache

(4) -> Cap

get(1) 27

get(5) -1

- get
- put

(1,27)

(2,15)

(3,72)

(4,65)

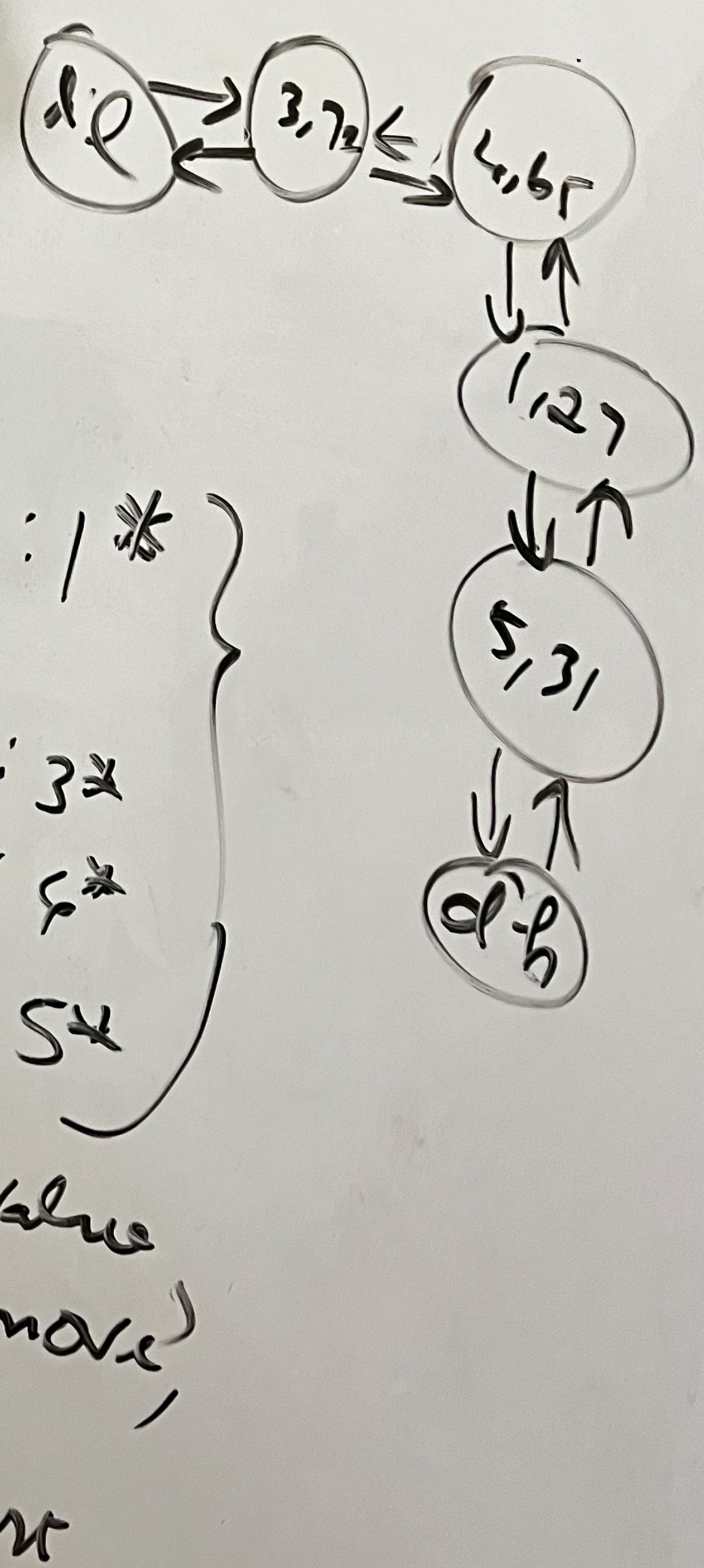
.....

(5,32)

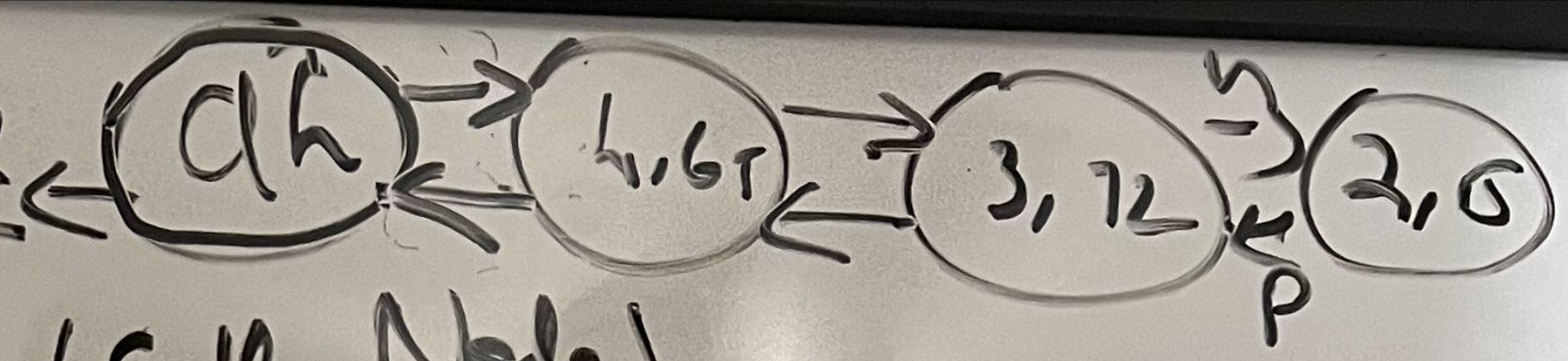
- - - - - - - -

LNode:
- val
- next

DLList:
- val
- next
- Prev



LRU Cache



addNode(self, Node):

dh ⇄ 3

Node.next = dh.next

Node.prev = dh

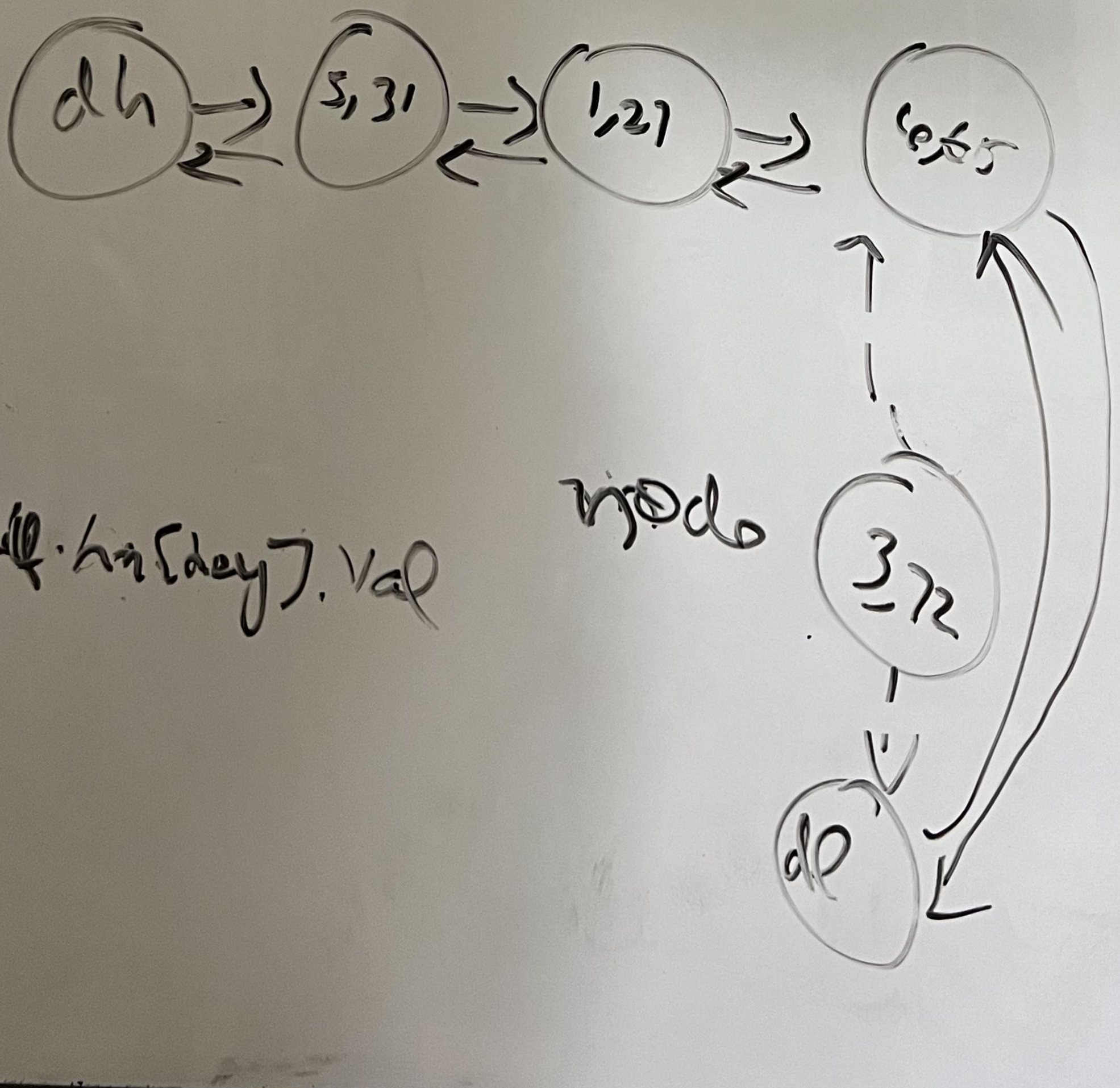
dh ⇄ 4 ⇄ 3

dh.next = Node

Node.next.prev = Node.

d

{ 1 : 1
2 : 5 }

d = { 1 : 1 , 2 : 5 }

d [3] = 8