- Hashset Implementation
- Hashmap overview/Implementation

– Queue using stack
– Min Stack

BASICS

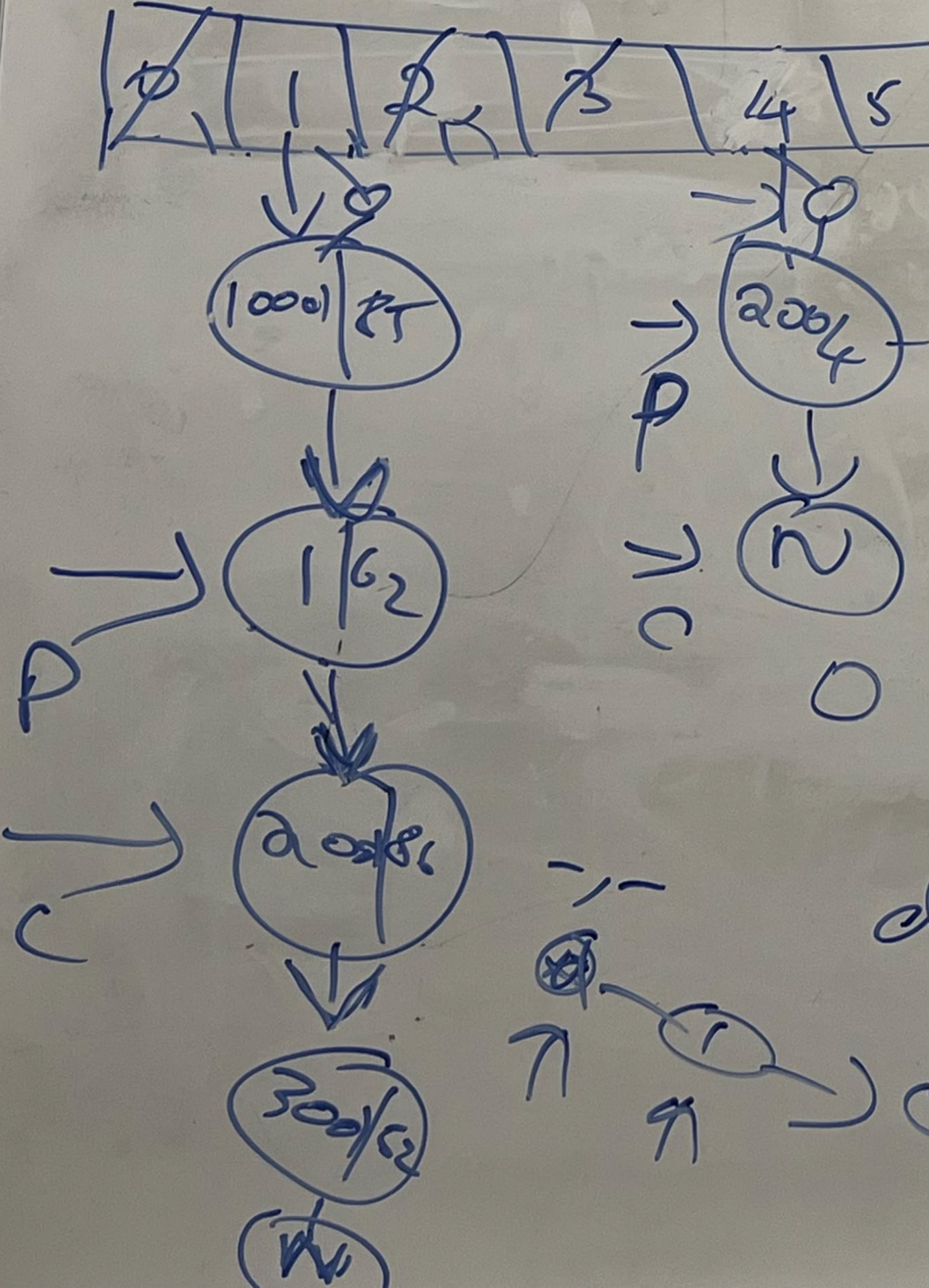
2, 4, -1, 8, 3, -2, 5

Find Min element in the stack in O(1) TC

- √ | Double hashing

%. — hashing

100 X 10000



1000 1
1
2001
3001

del(3001)

[0, 10^6] Queue Stack

– O(1)
– Use Array Index concept
– hashing
– Collision
– Evenly distribute to reduce Prob of Collision

Collision handling Techniques
– Linear chaining
– Double hashing
– Linear Probing

K	V
1	62
2	75
3	80
4	75
18	95
23	80

remove(K)
update(K,V)
add(K, V)
search (K)
O(n)

18, 25
T/F | F
Val | Error

YT Views count

- Hashset Implementation — Queue using stack
- Hashmap overview/Implementation — MinStack

2, 4, -1, 8, 3, -2, 5

- ✓ | Double hashing %
//

Find Min element in the stack in $\theta(1)$ TC.

$[0, 10^6]$

- $\theta(1)$
- Use Array Index concept
- Hashing.
- Collision
  - Evenly distribute to reduce Prob of collision
  - Collision Handling Technique
    - linear chaining
    - Double hashing
    - Linear Probing

	Time	Space
LL	$\theta(n)$	LL grows
A	$\theta(1)$	1000

Node:
key
value.

K	V
1	62
2	75
3	80
4	75
18	95
23	80

remove(k)
update(k,v)
add(K,V)
search(K)
$\theta(n)$

18, 25
T/F
Val
F
Error

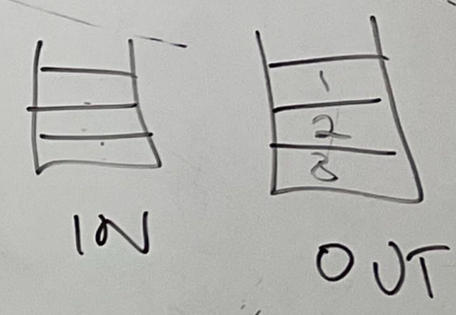
- Hashset Implementation
- Hashmap overview/Implementation

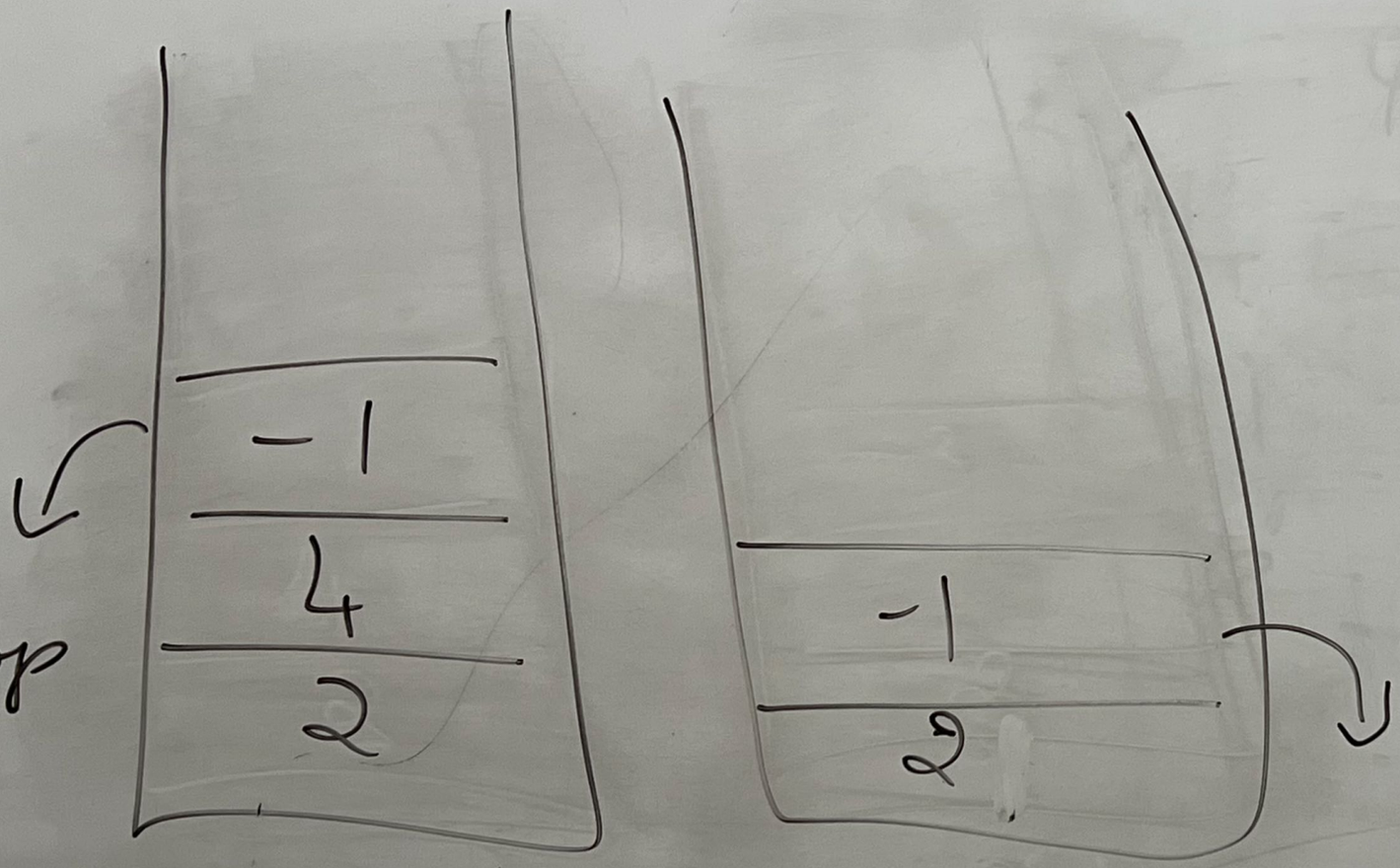
Queue using stack

Min Stack

2, 4, -1, 8, 3, -2, 5

Find Min element in the stack in $\theta(1)$ TC





2
4
-1
8
3
-2
Pop
5

O(1) to Peek Top element