

No: _____

Date: ____/____/____

* Insert Delete GetRandom $O(1)$

↓
don't remove element

Need to do these in $O(1)$ complexity.

To insert & delete only we can use Hash Set. But to get random value, we have to track each value as well.

Map + List

Insert 1

Insert 2

Insert 6

Insert 10

key	value
1	0
2	1
6	2
10	3

1 2 6 10

get random value

insert & delete

delete 6

key	value
1	0
2	1
6	2
10	3 2

1 2 10 10

list.set(index, value)