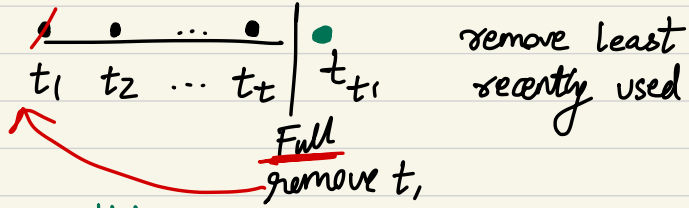


LRU CACHE - LEAST RECENTLY USED.

Time Stamp

- Limited Memory
- Retrieval $O(1)$
- Remove LRU



Helpers:

get(k)

addNode(Node) @head put(k, v)

removeNode(Node)

moveToHead(Node)

removeLRU()

How about putting elements always to front?

HashTable - $O(1)$

How to maintain ordering - LRU??

Linked Hash Map

case: !exist

return Null?

case: exists

node ← map.get(key)

moveToHead(node)

return node

why not singly?? deletion ☹️
Doubly Linked List: Orders

HashMap: efficient Look up

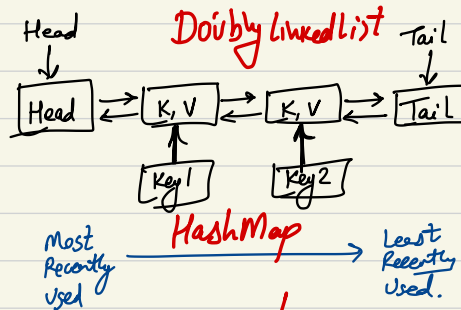
key exist
moveToHead()

node ← new()

map.put(k, v)

addNode(node)

case: capacity maxed out
removeLRU



Capacity / Size