

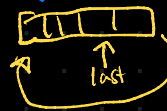
Least Recently Used (LRU) Cache

- explain problem in ≤ 5 min (diagrams)
(7-10 min)
- Confirm w/ interviewer if that makes sense (Talk)
- Test driven development (time?)
 - tests that pass early
 - write the code to have functionality first
- Attack the problem w/ tests in mind
 - Dictionary + caching
 - test it early
 - Last used (enhancement)
 - test
 - linked list

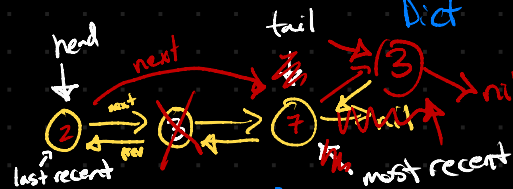
TRICK:

1. {Double Link List
Dictionary}

2. Array Dict



Node
next
prev
value



insert (write)

- item is last used
- remove old items
- append to tail

read (cache hit)

- item is last used
 - ↳ adjust "pointers"
 - move to tail
- delete
- reinsert (insert)
append

read(3)

Dictionary

key: Node

Node

weak prev
strong next
value

prevent
retain cycles