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Daily Coding Problem: Problem #52 [Hard]

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Fri, Jul 29, 2022 at 11:37 AM



Good morning! Here's your coding interview problem for today.

This problem was asked by Google.

Implement an LRU (Least Recently Used) cache. It should be able to be initialized with a cache size `n`, and contain the following methods:

- `set(key, value)` : sets `key` to `value`. If there are already `n` items in the cache and we are adding a new item, then it should also remove the least recently used item.
- `get(key)` : gets the value at `key`. If no such key exists, return null.

Each operation should run in $O(1)$ time.

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