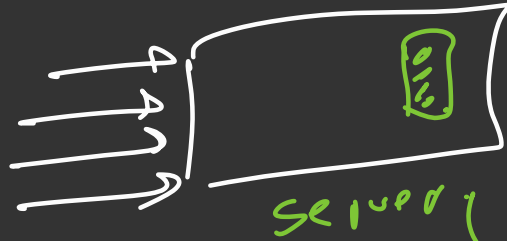


$$\frac{\text{OS}}{4} + \frac{\text{APP}}{1} + \frac{\text{APP}}{2} = \frac{8 \text{ GB}}{1}$$

RAM.

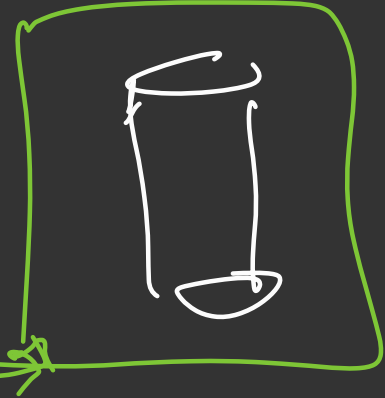


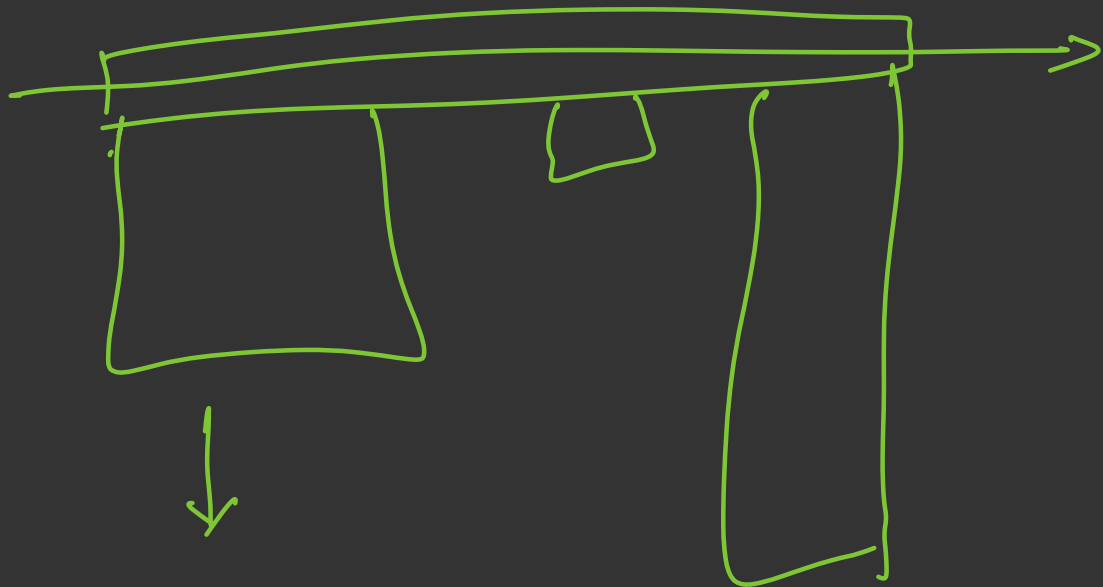
slow



I/O

Hard disk.





⇒ Backend Caching.

① → install Redis ($\begin{matrix} L \\ M \\ W \end{matrix} \rightarrow \underline{.msi}$)

→ CLI

② → vs code extension.

⑦ redis-cli

↓
github)

⇒

Cache eviction

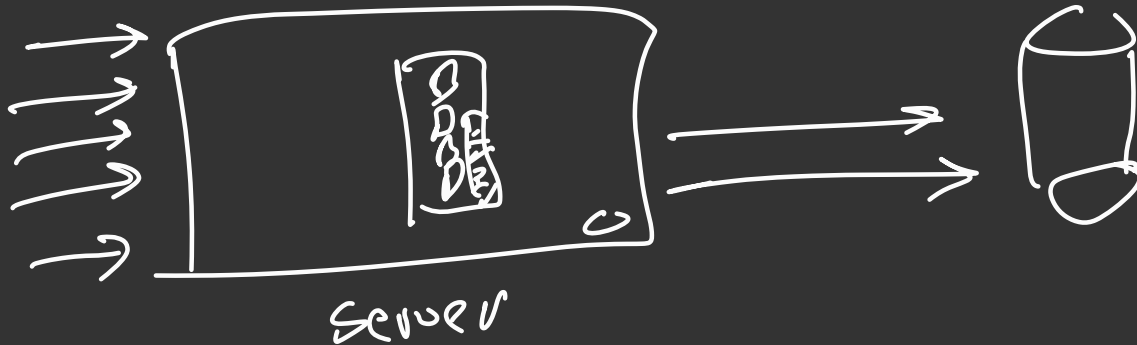
Cache hit

Cache miss

CM >> CH: P_{old}

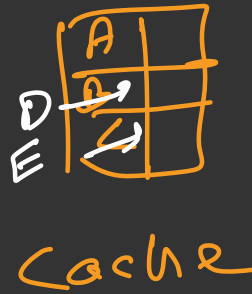
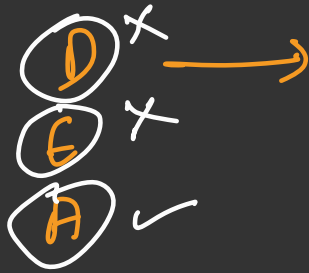
CH >> CM: P_{new}

Cache invalidation

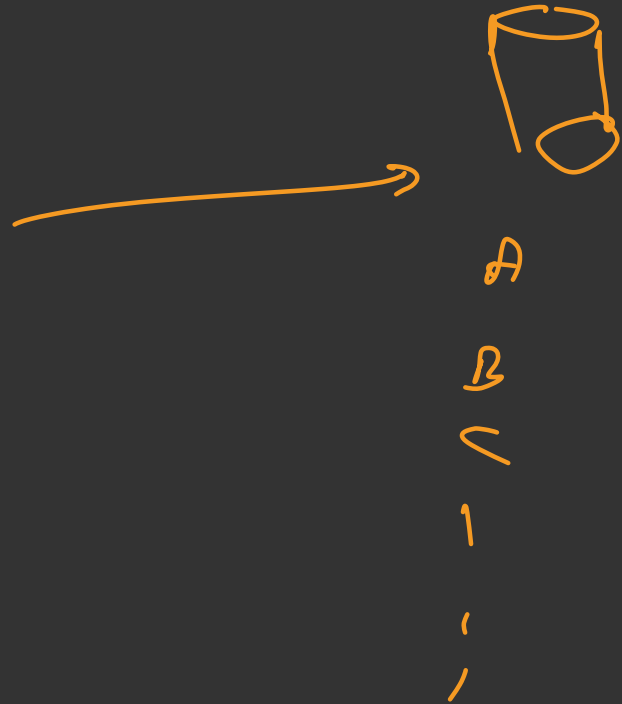


Cache eviction →

Goal: C-Hit >>>
(1)



Cache Miss
(2)



Cache invalidation

A	300
B	450
C	500



A: 300
B: ~~450~~ → 402
C: 500

|
|
|

\Rightarrow APLS

$L \rightarrow$

$R \rightarrow$

CHC

$CM \rightarrow \text{set}(k, v)$

$U \rightarrow$

del key
 $\text{set}(k, v')$

$D \rightarrow$

del key