

Page Replacement Policy

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1 Why Optimal Page Replacement is not possible

sometimes it depends on user inputs

page replacement algorithms because the pages used once can be used once again

2 FIFO

Not intelligent (very simple)

Belady anomaly

increasing capacity actually increases page misses

3 random replacement

perform better than fifo

not intelligent

4 Based on history

5 MFU

If something used a lot it means its work is done (the code)

replacing the most commonly used page

1. cons: does not consider spatial or temporal locality

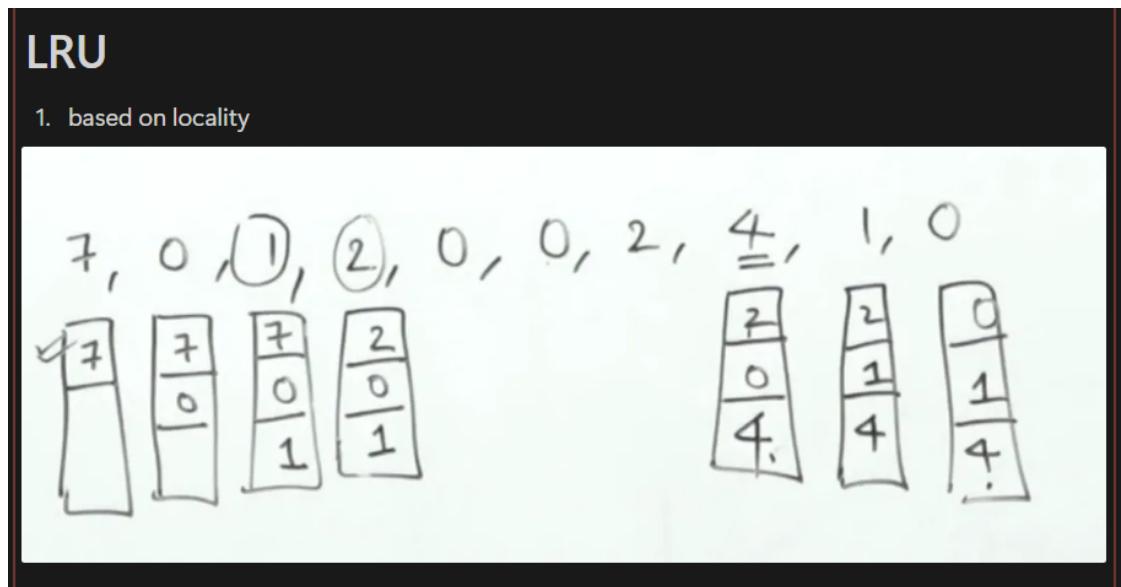
6 LFU

better than MFU

1. based on spatial or temporal locality ??? DOUBTS

in these 2 we are not considering time

7 considering time



Implementing it Queue
DLL

implementation heavy, for cache is fine because cache is small, for pages it becomes heavy ram can have a lot of pages

8 LRU approxiamation