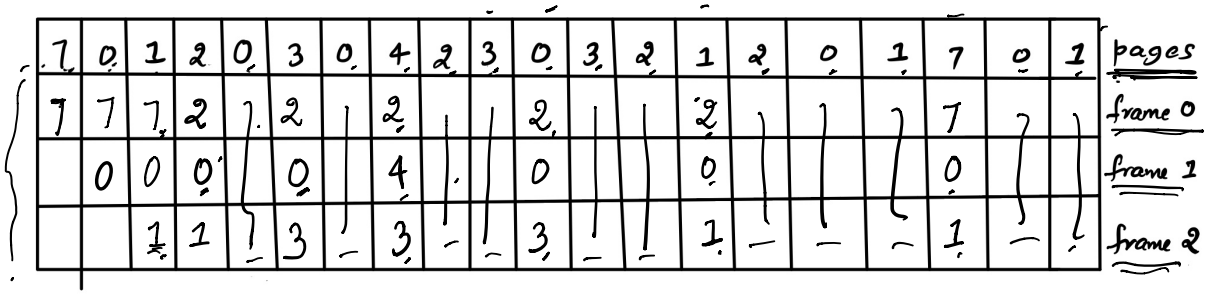
OPTIMAL PAGE REPLACEMENT ALGORITHM

- Finding an algorithm which has the lowest page-fault rates?
- Replace the page that will not be used for longest period of time
- What if all the pages are not going to be used in the future again? Use FIFO for page replacement or replace any page
- Similar to SJF(burst time), this algorithm requires looking into the future(page references).
- Therefore, it is not used in any is and just used for comparing algorithms
- Doesn't suffer from Belady's anomaly.



20 - 11 = 9

$\frac{9}{20} \times 100 = 45\%$

FIFO → 15 → 75%

LRU