

Q1) given

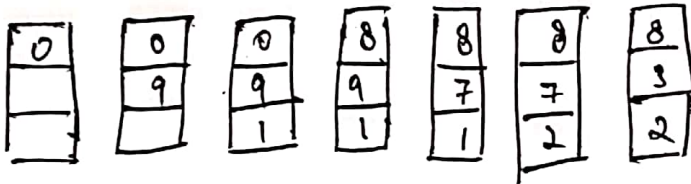
Pages: 0, 9, 0, 1, 8, 1, 8, 7, 8, 7, 1, 2, 8, 2, 7, 8, 2, 3, 8, 3

No. of frames in memory 3

a) optimal page replacement algorithm

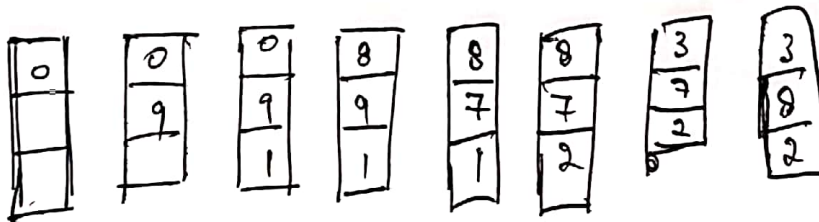
b) FIFO page replacement algo.

∴ At optimal page repl. algo: The page that will not be requested by the CPU in future for the longest time is replaced.



7 page faults.

b) FIFO: Oldest Page is the page that has been present in main memory for longest time is replaced.



② given: 0, 2, 4, 5, 2, 4, 3, 11, 2, 10

No. of frames in memory = 4 frames

LRU (Least Replacement Used) Page replacement algo.

