

## Page replacement Algorithms - Problem Sets

### Problem Set-1:

Assume main memory is empty at the start

page reference sequence is : 3, 2, 3, 0, 8, 4, 2, 5, 0, 9, 8, 3, 2

If there are 2 frames in memory, fill the following table and calculate the total page faults using FIFO & LRU -

Instance of time	FIFO			LRU		
	Frame-1	Frame-2	Page Fault (Yes/No)	Frame-1	Frame-2	Page Fault (Yes/No)
0	-	-	-	-	-	-
1	3	-	Yes	3	-	Yes
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
	Total Page faults (using FIFO)			Total page faults (using LRU)		

If there are 3 frames in memory, then calculate the total page faults using FIFO & LRU?


### Problem Set-2:

Assume main memory is empty at the start

page reference sequence is : 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1, 7, 0, 1

If there are 3 frames in memory, then calculate the total page faults using FIFO & LRU?

If there are 4 frames in memory, then calculate the total page faults using FIFO & LRU?