

Quiz-6

Page Replacement LRU Algorithm:

- a) \Rightarrow When a page frame k is referenced, then all the bits of k row are set to one and all the bits of k column are set to zero.

	0	1	2	3
0	0	1	1	1
1	0	0	0	0
2	0	1	0	0
3	0	1	0	0

page 0

	0	1	2	3
0	0	0	1	1
1	1	0	1	1
2	0	0	0	0
3	0	0	0	0

page 1

	0	1	2	3
0	0	0	1	0
1	1	0	1	0
2	0	0	0	0
3	1	1	1	0

page 3

	0	1	2	3
0	0	0	0	0
1	1	0	0	0
2	0	1	0	1
3	1	1	0	0

page 2

	0	1	2	3
0	0	0	0	0
1	1	0	1	1
2	1	0	0	1
3	1	0	0	0

page 1

- b) \Rightarrow In LRU algorithm, we generally prefer the least used page referenced.
In this case, it is page '0'.