Assignment -8 Report on Page replacement Algorithms

In an operating system that uses paging for memory management, a page replacement algorithm is needed to decide which page needs to be replaced when new page comes in.

For the given input in **pages.txt**:

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3												
1	2	3	2	1	5	2	1	6	2	5	6	3
1	3	6	1	2	4	3	-1					
4												
1	2	3	2	1	5	2	1	6	2	5	6	3
1	3	6	1	2	4	3	-1					
5												
1	2	3	2	1	5	2	1	6	2	5	6	3
1	3	6	1	2	4	3	-1					

LRU-

Frame size	3	4	5
Hit	9	10	14
Page Fault	11	10	6

Frame size	3	4	5
Hit	9	11	14
Page Fault	11	9	6

OPTIMAL -

Frame size	3	4	5
Hit	11	13	14
Page Fault	9	7	6

In case of optimal , the page fault rate is minimum as it swaps out the page that will be use in last. As frame size increases , the page fault rate decreases.