

Quiz #2

Consider the following page reference string:

7, 2, 3, 7, 2, 5, 2, 4, 1, 6, 7, 3, 0, 5, 4, 2, 3, 0, 3, 1.

Assuming demand paging with **three** frames, how many page faults would occur for the following replacement algorithms?

- LRU algorithm
- FIFO algorithm
- Optimal algorithm

OS Quiz 2

Sagib Javed

15/15

L17-6148

Section-B

7, 2, 3, 7, 2, 5, 2, 4, 1, 6, 7, 3, 0, 5, 4, 2, 3, 0, 3, 1

3 frame demand paging.

LRU:-

7	2	3	7	2	5	2	4	1	6	7	3	0	5	4	2
7	7	7		7		4	4	4	4	7	7	7	5	5	5
	2	2		2		2	2	6	6	6	0	0	0	0	2
		3		5		5	1	1	1	3	3	3	4	4	

3	0	3	1
3	3		3
2	2		1
4	0		0

5

16 page faults

FIFO:-

7	2	3	7	2	5	2	4	1	6	7	3	0	5	4	2
7	7	7		5		5	5	6	6	6	0	0	0	0	2
	2	2		2		4	4	4	7	7	7	5	5	5	
		3		3		3	1	1	1	3	3	3	4	4	

3	0	3	1
2	2		1
3	3		3
4	0		6

5

16 page faults.

Optimal Algorithm:

7	2	3	7	2	5	2	4	1	6	7	3	0
7	7	7		7		7	7	7		7	0	
	2	2		2		4	1	6		3	3	
		3		5		5	5	5		5	5	

5	4	2	3	0	3	1
0	0				0	
3	3				1	
4	2				2	

12 page faults