

~~clock~~ 1 2 3 4 5 6 7 8 9 10 11 12 13 14

✓ ✓ ✓ ✓ X ✓ ✓ X ✓ X ✓ ✓ X

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

1 1(1) 1(1) 4(4) 4(4) 4(4) 3(8) 3(8) 3(8) 3(8) 2(13) 2(13)

2 2(2) 2(2) 2(2) 5(6) 5(6) 5(6) 5(6) 1(10) 1(10) 1(10) 1(10)

3 3(3) 3(3) 3(3) 2(7) 2(7) 2(7) 2(7) 5(12) 5(12) 5(12)

FIFO

Page fault # = 10

LRU

clk	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1	2	3	4	2	5	2	3	2	1	2	5	2	1
1	1(1)	1(2)	①(1)	4(4)	4(4)	4(4)	④(4)	3(8)	3(8)	3(8)	③(8)	5(12)	5(12)	5(12)
2		2(2)	2(2)	2(2)	2(5)	2(5)	2(7)	2(7)	2(9)	2(9)	2(11)	2(11)	2(13)	2(13)
3			3(3)	3(3)	③(3)	5(6)	5(6)	5(6)	⑤(6)	1(10)	1(10)	1(10)	1(10)	1(14)
	✓	✓	✓	✓	x	✓	x	✓	x	✓	x	✓	x	x

- Page fault $H = 8$

Optimal

clk	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1	2	3	4	2	5	2	3	2	1	2	5	2	1
1	1	1	①	4	④	5	5	5	5	5	5	5	5	5
2		2	2	2	2	2	2	2	2	2	2	2	2	2
3			3	3	3	3	3	3	③	1	1	1	1	1
	✓	✓	✓	✓	x	✓	x	x	x	✓	x	x	x	x

Page fault $H = 6$