

5) 4097, 16390, 66666, 1000000

$$1KB = 2^{10} = 1024 \text{ page}$$

$$4KB = 2^{12} = 4096 \text{ page}$$

$$8KB = 2^{13} = 8192 \text{ page}$$

4KB

$$\frac{4097}{4096} = 1 \text{ remainder}$$

offset is 1 page # is 1

$$\frac{16390}{4096} = 4 \cdot 4096 = 16384 - 16390 = 6$$

offset is 10 page # is 4

$$\frac{66666}{4096} = 16 \cdot 4096 = 66666 - 65536 = 1130$$

offset is 1130 page # is 16

$$\frac{1000000}{4096} = 244 \cdot 4096 = 1000000 - 999424 = 576$$

offset is 576 page # is 224

8KB

$$\frac{4097}{8192} = 0$$

offset is 4097 page # is 0

$$\frac{16390}{8192} = 2 \cdot 8192 = 16384 - 16390 = 6$$

offset is 6 page # is 2

$$\frac{66666}{8192} = 8 \cdot 8192 = 66666 - 65536 = 1130$$

offset is 1130 page # is 8

$$\frac{1000000}{8192} = 122 \cdot 8192 = 1000000 - 999424 = 576$$

offset is 576 page # is 122

6)

NRU = Not recent use

There is no 00 so the next one is 01
replace page 1

FIFO = which loaded the longest will coming out
replace page 2

LRU = Last recent use

which has higher number for last Ref.

Replace page 0

Second Chance

Page 0 has the highest loaded time but R=1
page 3 has the 2nd highest loaded time and R=0

Replace page 3