

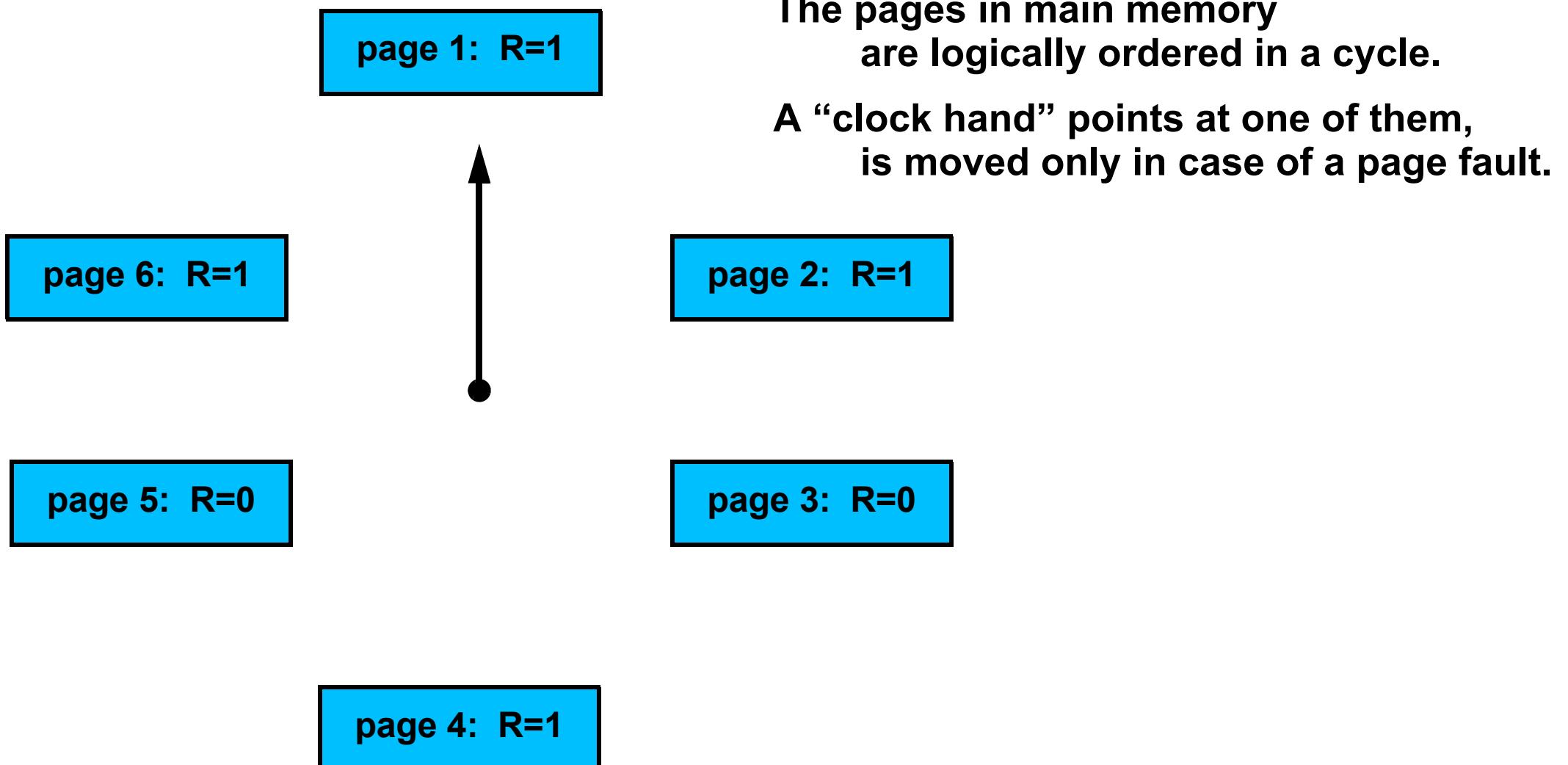
Clock Algorithm: An Approximation Of LRU

Based on the R bit in the page table

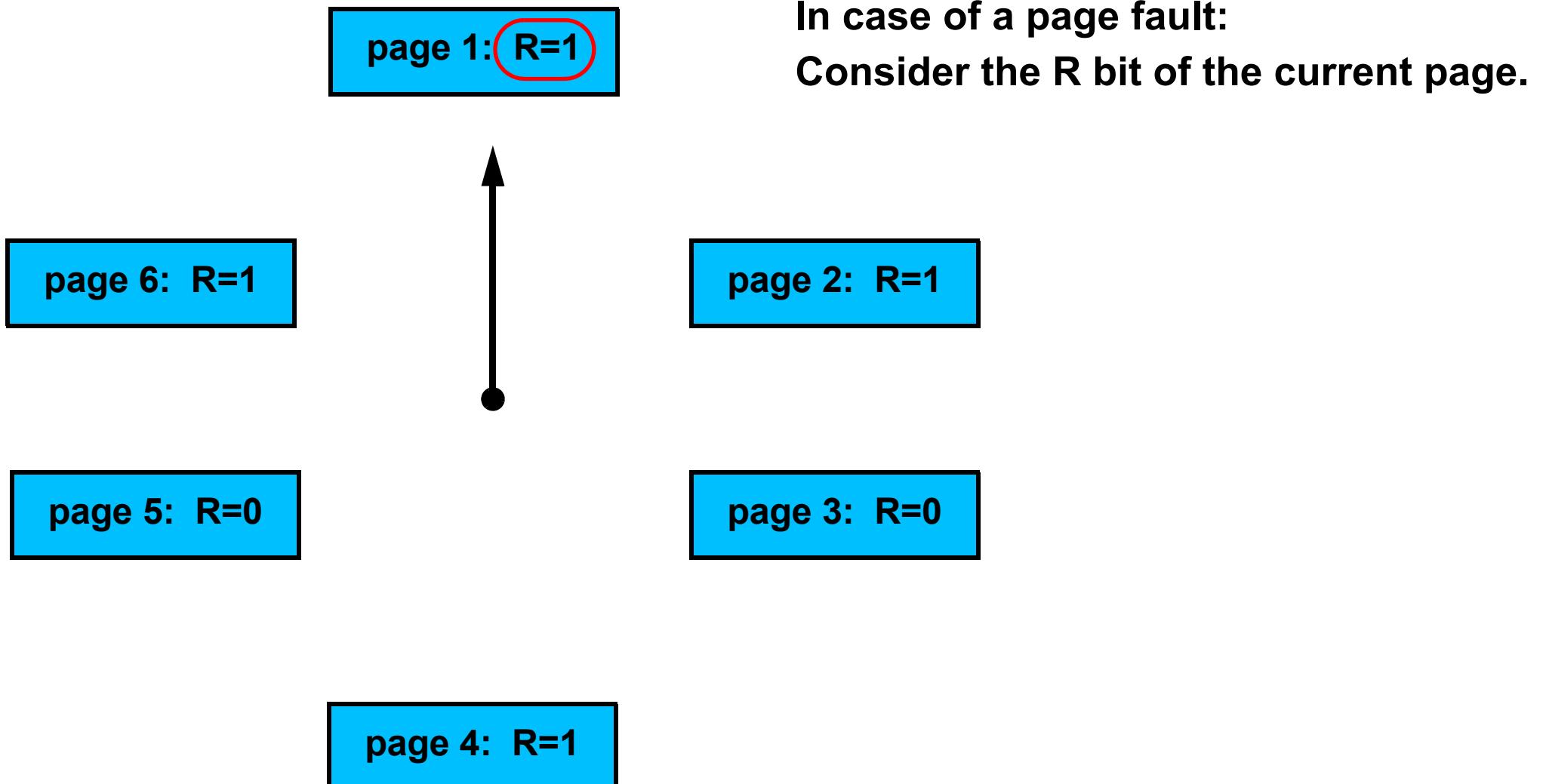
page table			
perm- issions	R/M bits	valid bit	physical frame no.

***R bit = Referenced Bit
is set automatically when the page is used / "referenced"***

Clock Algorithm: An Approximation Of LRU



Clock Algorithm: An Approximation Of LRU



Clock Algorithm: An Approximation Of LRU

page 1: R=0

If R=1:

Set R=0 and move hand to the next page.

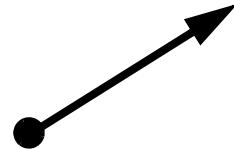
page 6: R=1

page 2: R=1

page 5: R=0

page 3: R=0

page 4: R=1



Clock Algorithm: An Approximation Of LRU

page 1: R=0

If R=1:

Set R=0 and move hand to the next page.

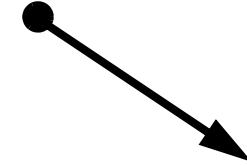
page 6: R=1

page 2: R=0

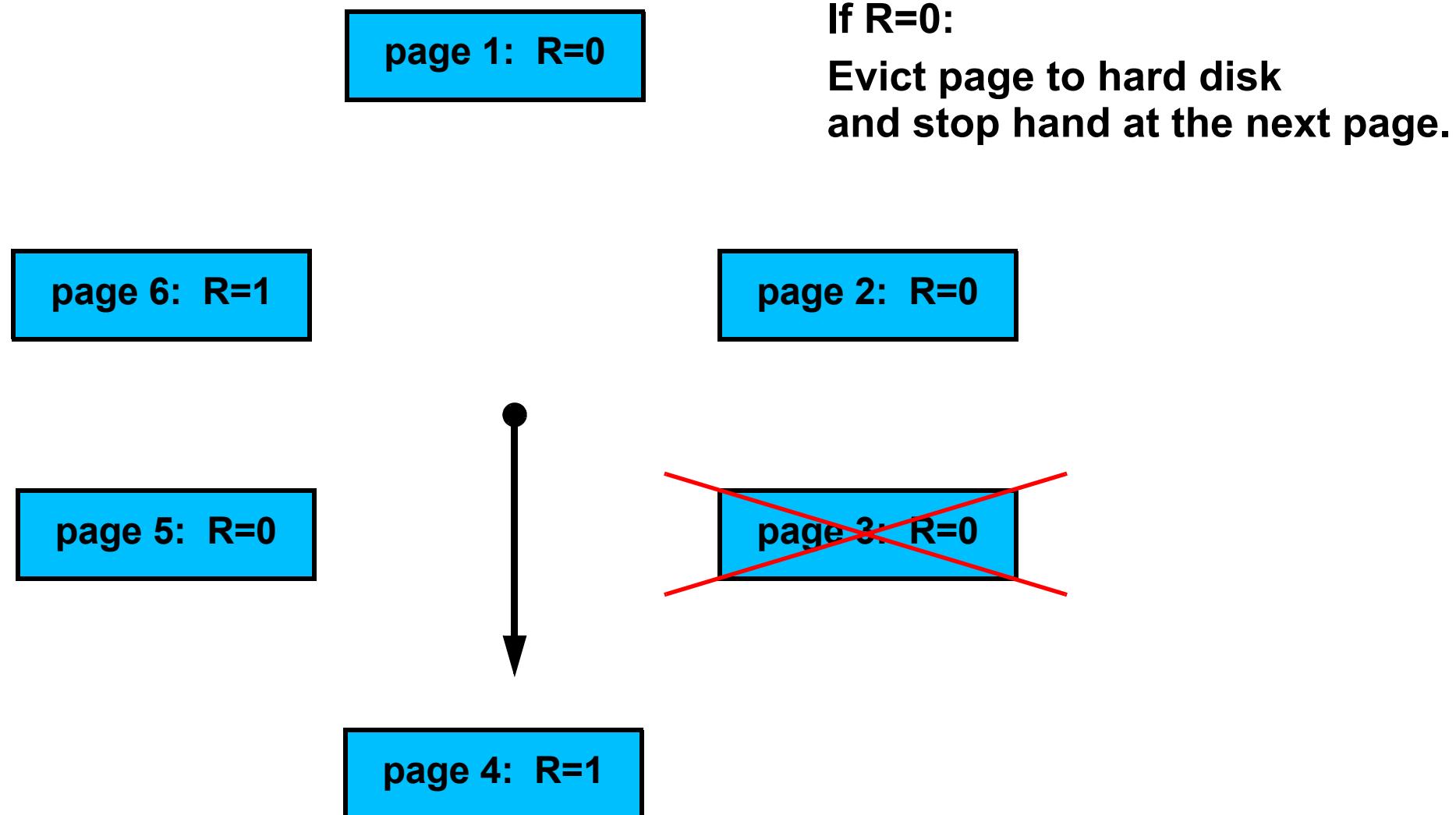
page 5: R=0

page 3: R=0

page 4: R=1



Clock Algorithm: An Approximation Of LRU



Clock Algorithm: An Approximation Of LRU

page 1: R=0

“Approximation of LRU”:

A page with R=0 has not been used during a full round of the clock hand.

page 6: R=1

page 2: R=0

page 5: R=0

page 4: R=1

