

Application wants to read a disk page P:

1. check if P is in the buffer pool.
- 2, if so, "PIN" it, pass its address to the application(Requester)
3. if not, read it from disk to the buffer pool. Replace a page in the buffer if go to step2
4. After the requester finishes writing the page, "UNPIN" it.

Cache replacement policy

LRU Least recently used expensive

MRU most recently used

Dirty flag: when replacing a page with a dirty flag=1, flush it to disk before replacing it.

Forcing: when modifying a page, make sure the page is flushed to the disk immediately. (Write through)

Tree-based indexing:

ISAM: Indexed sequential access method static overflow: no sorted

b+ tree Dynamic

B/B+ index store