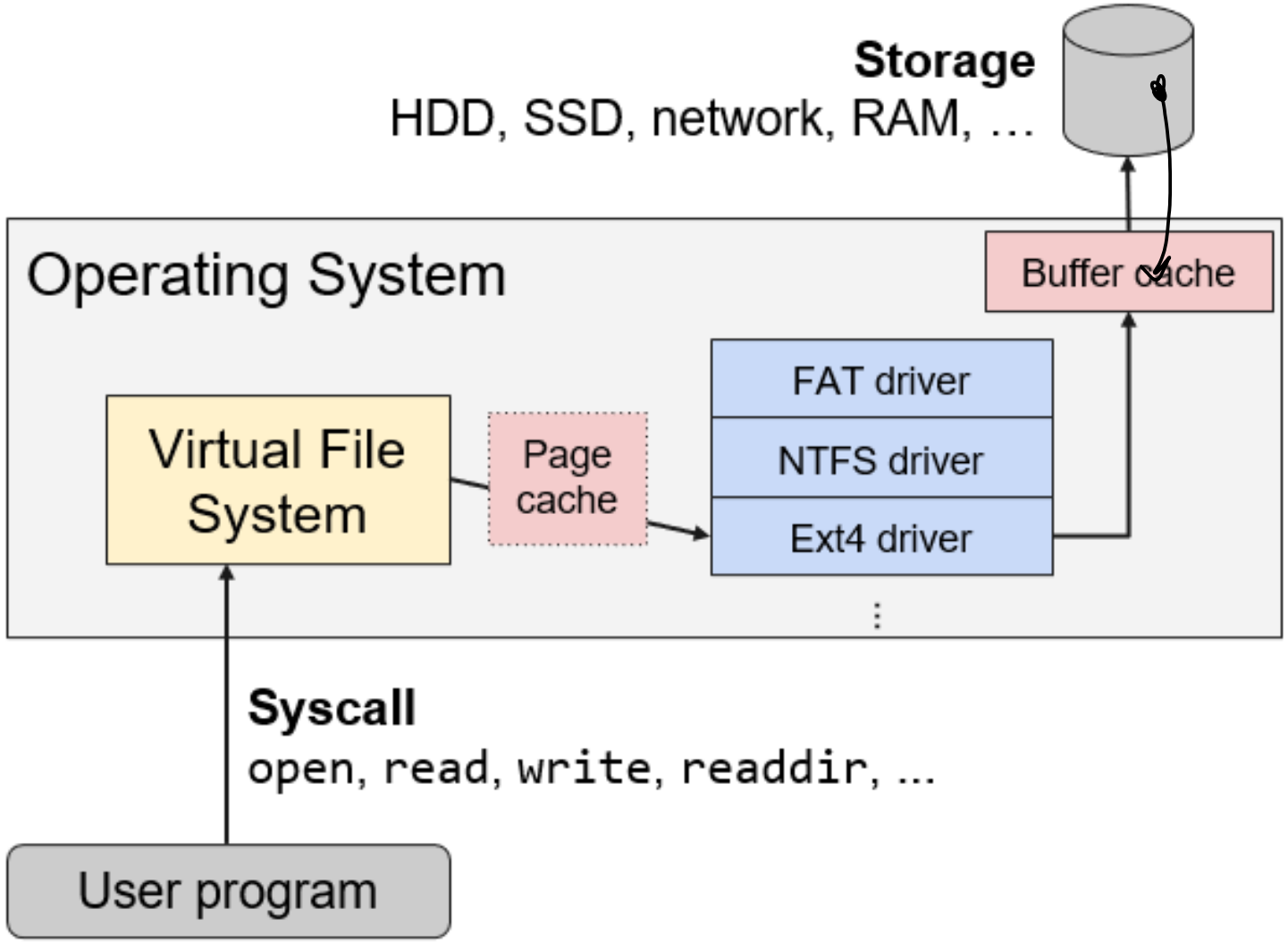
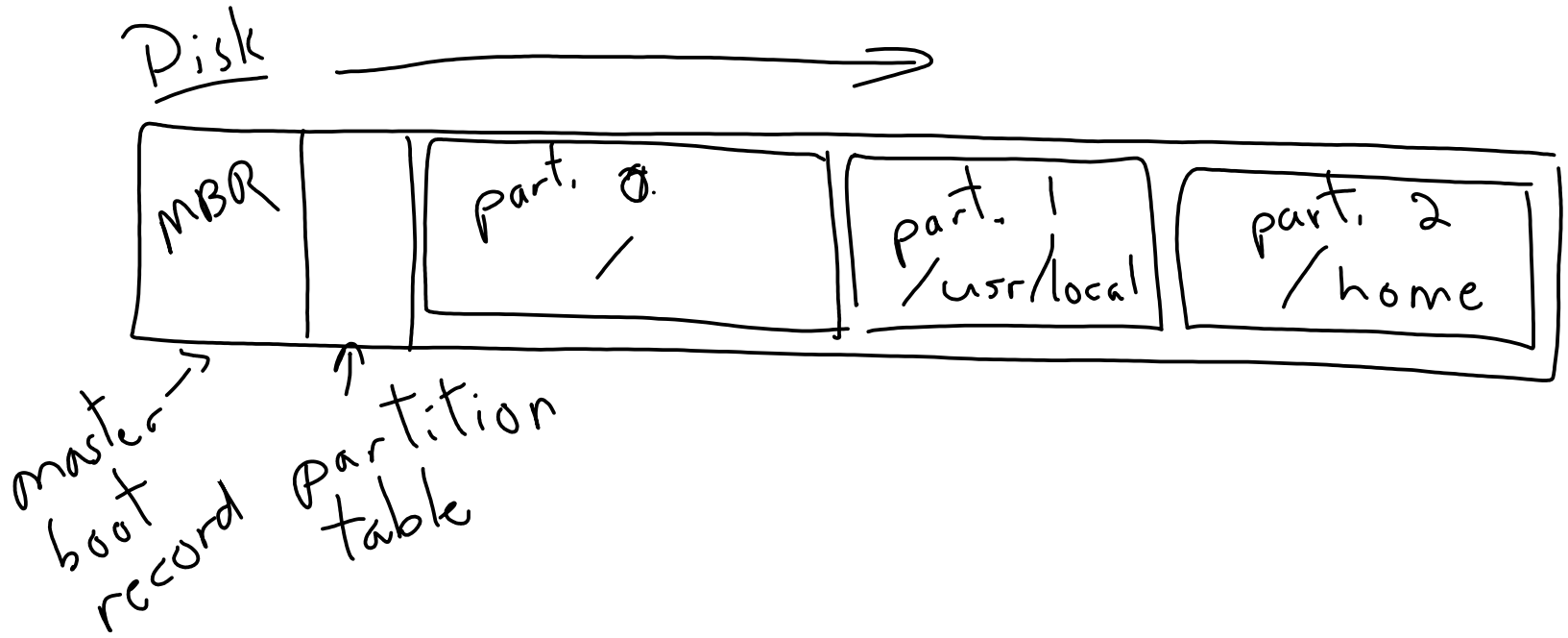
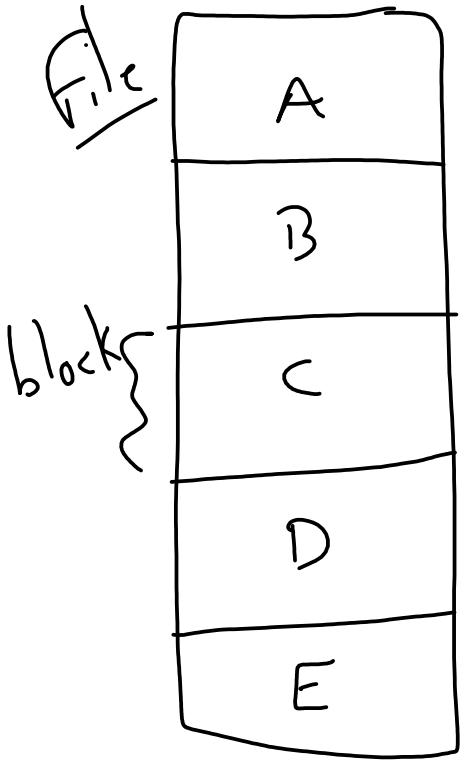
Virtual File System

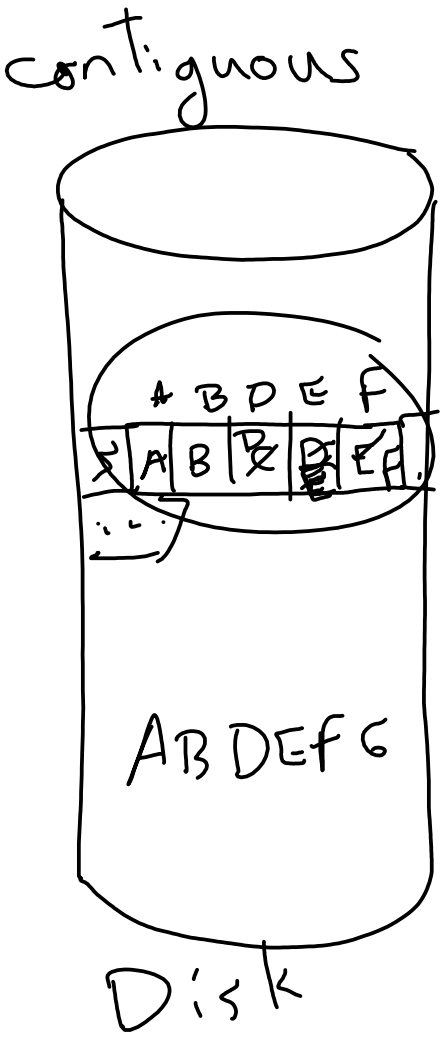



Disk
MBR
part. 0
/
part. 1
/usr/local
part. 2
/home
master boot record
partition table

files



contiguous

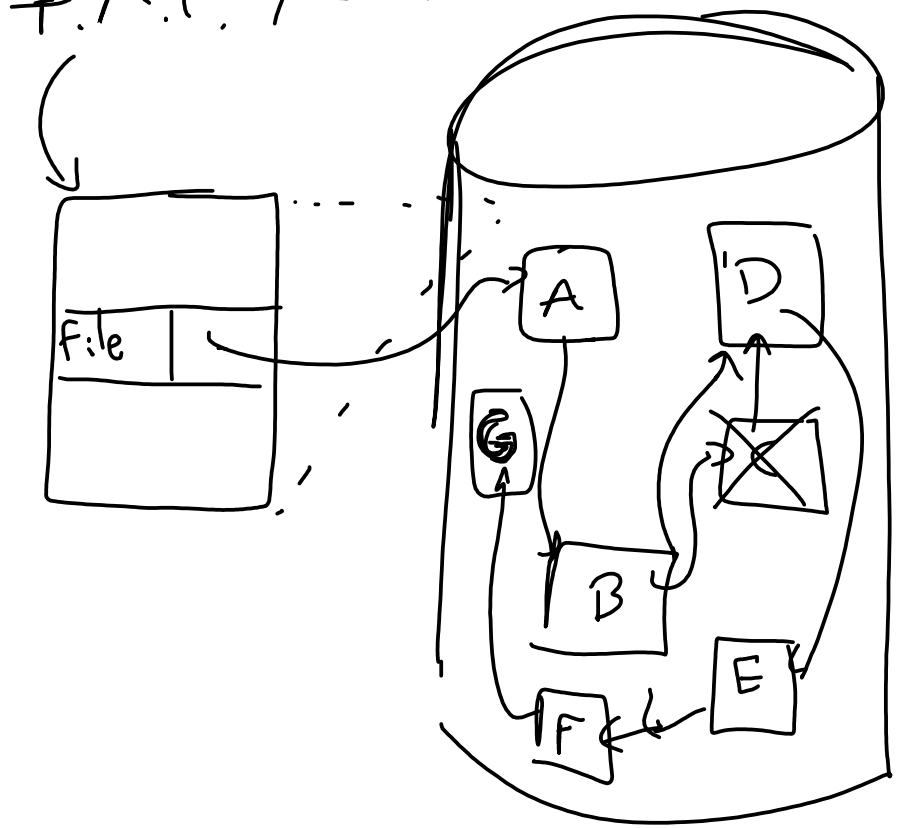


Delete C

Add F

Add G

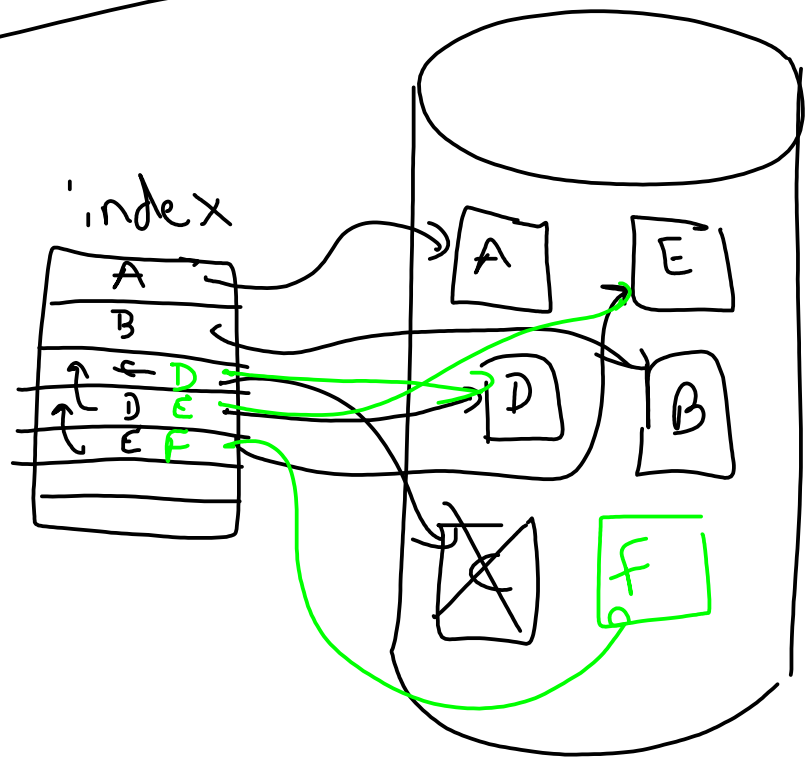
F.A.T. / Linked List



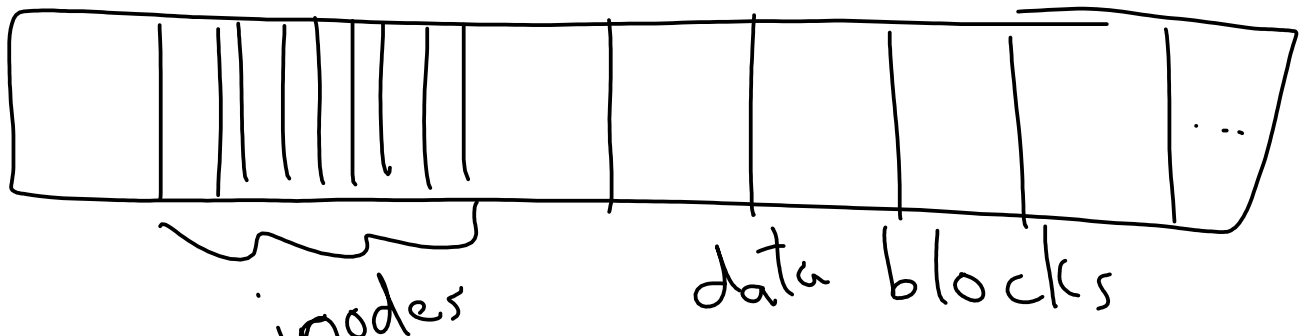
Delete C

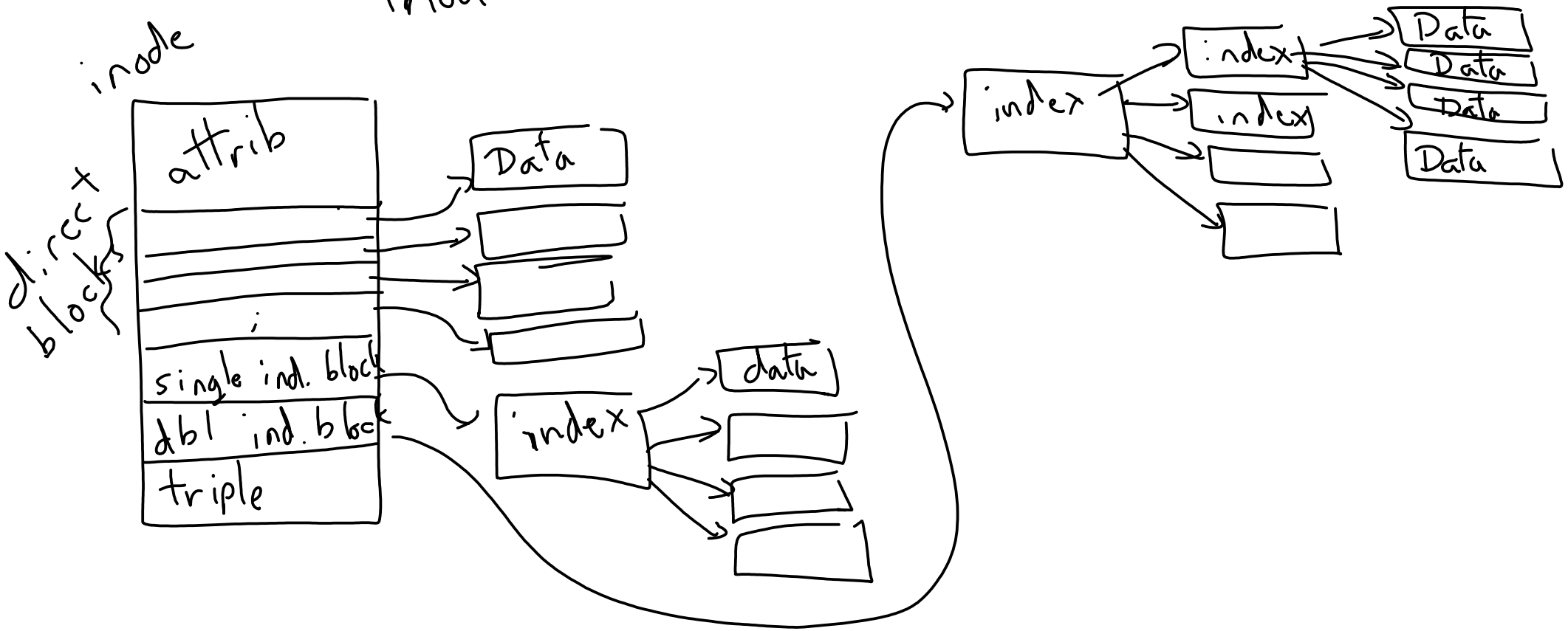
Add F, G

Indexed File

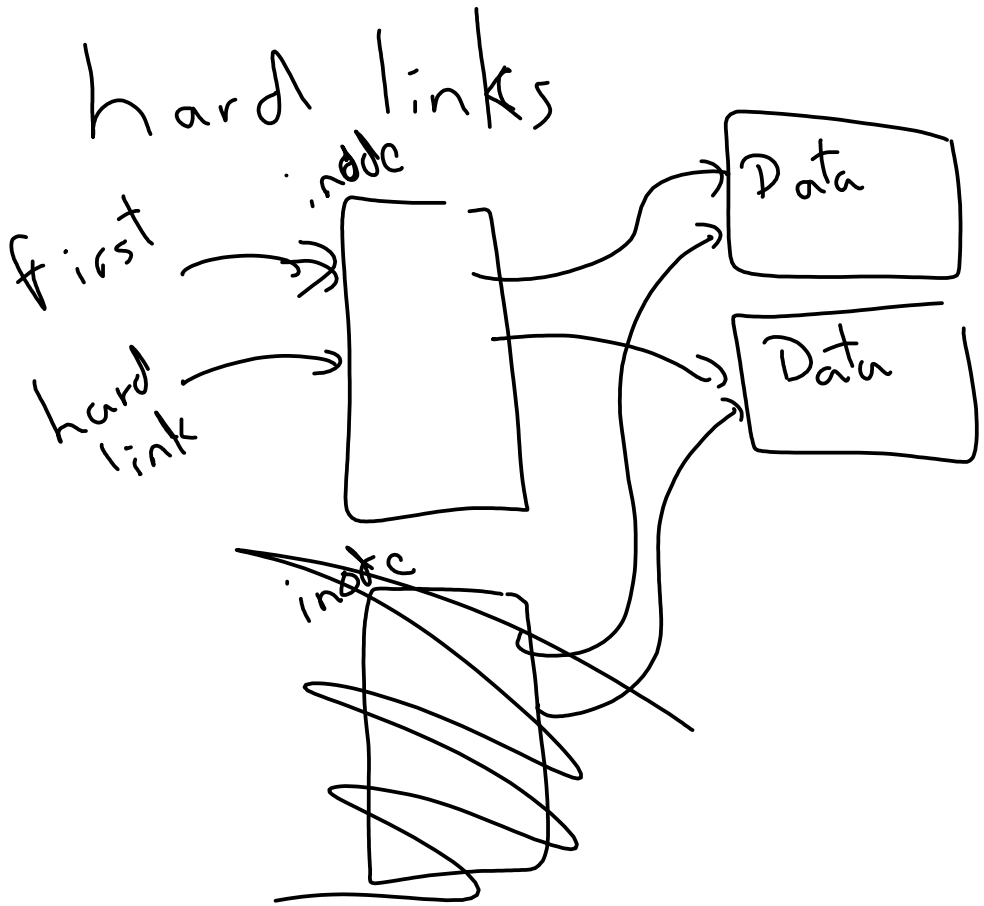


inode - file index





hard links



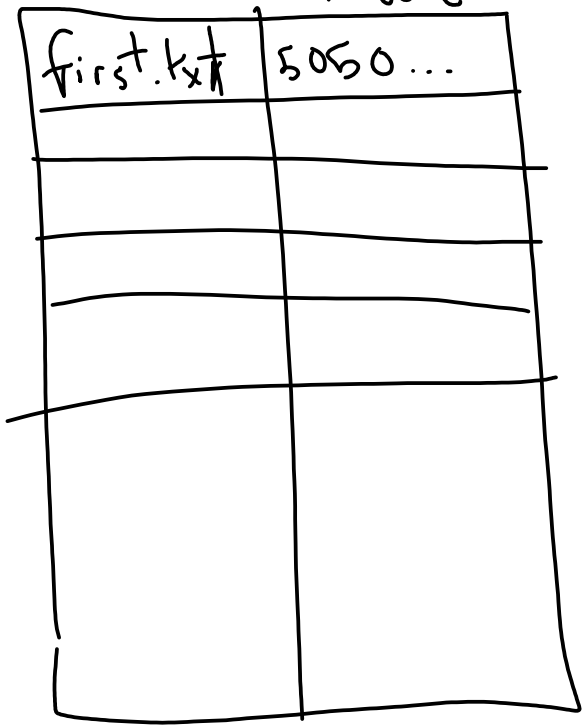
- shared copy
- must be in same file system (partition)

Soft (symbolic) links - shortcut

ln -s

link to other FS/partition

Directory



Keeping Track of Free Blocks

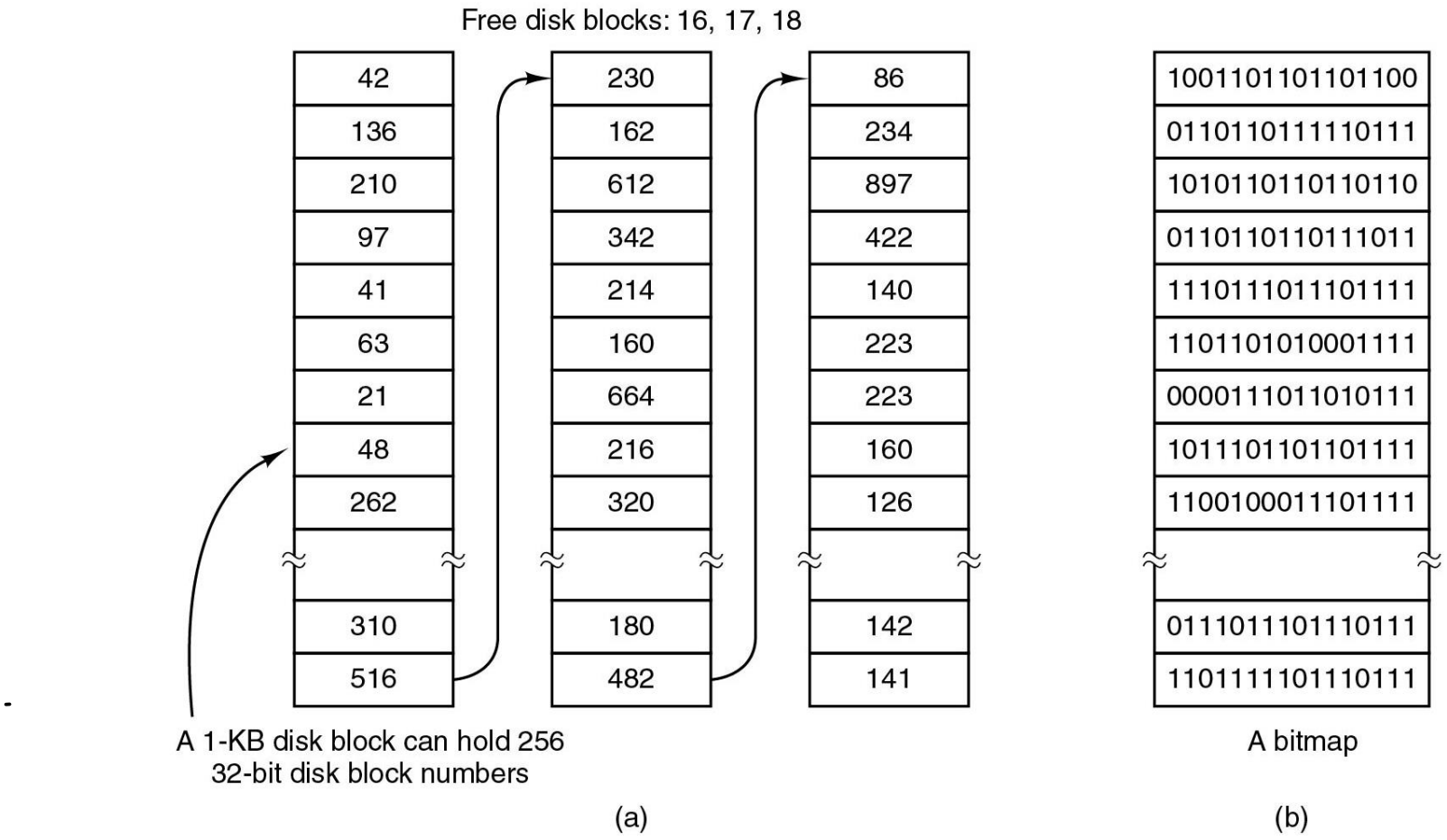
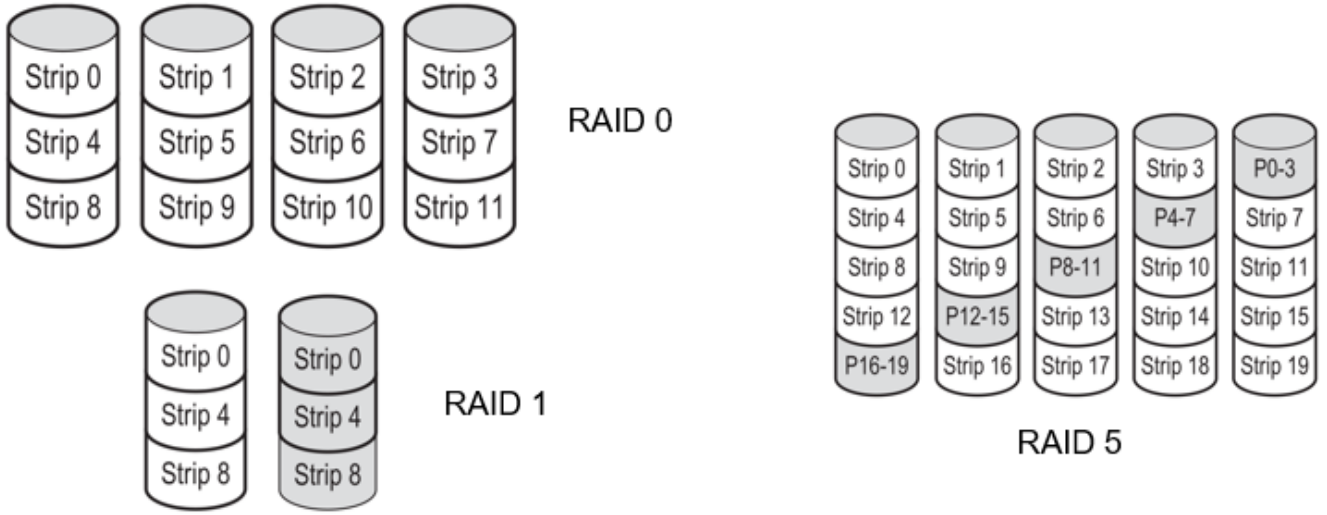


Figure 4.24 (a) Storing the free list on a linked list. (b) A bitmap.

RAID: Redundant Array of Independent Disks



- **RAID 0 & 2**: Expand file system over multiple disks (+storage)
- **RAID 1**: Duplicate file system over disks (+redundancy)
- **RAID 3-6**: Store parity information (+storage, +redundancy)