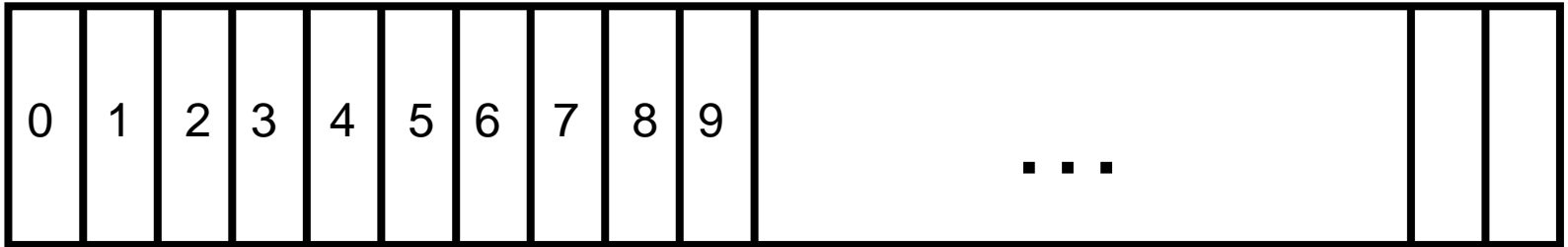
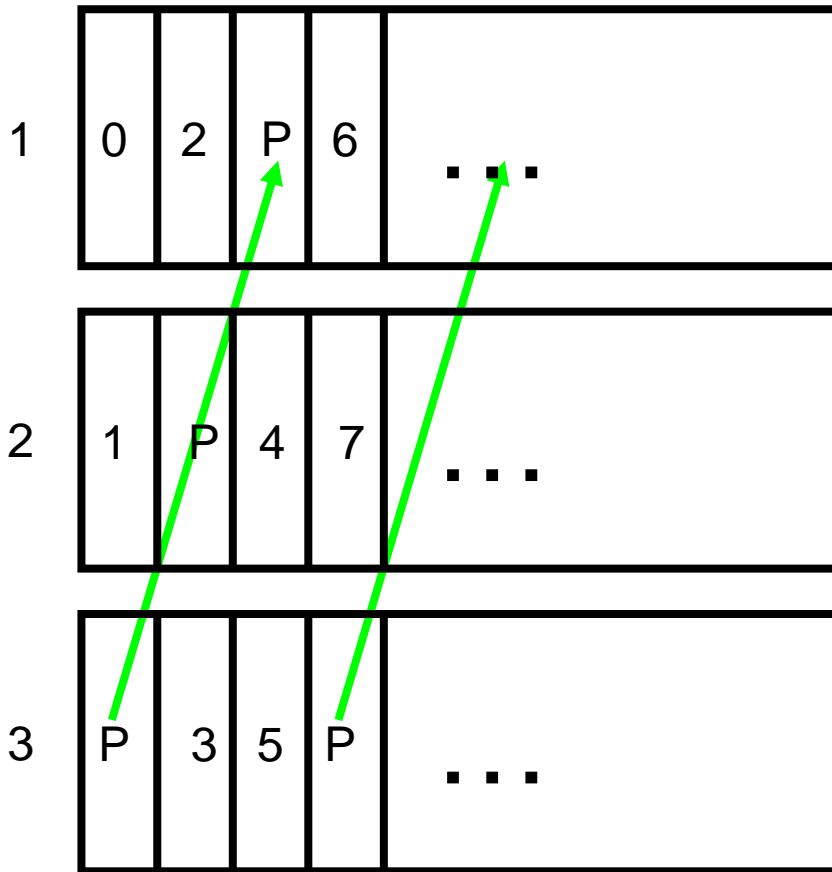


# RAID 0

RAID



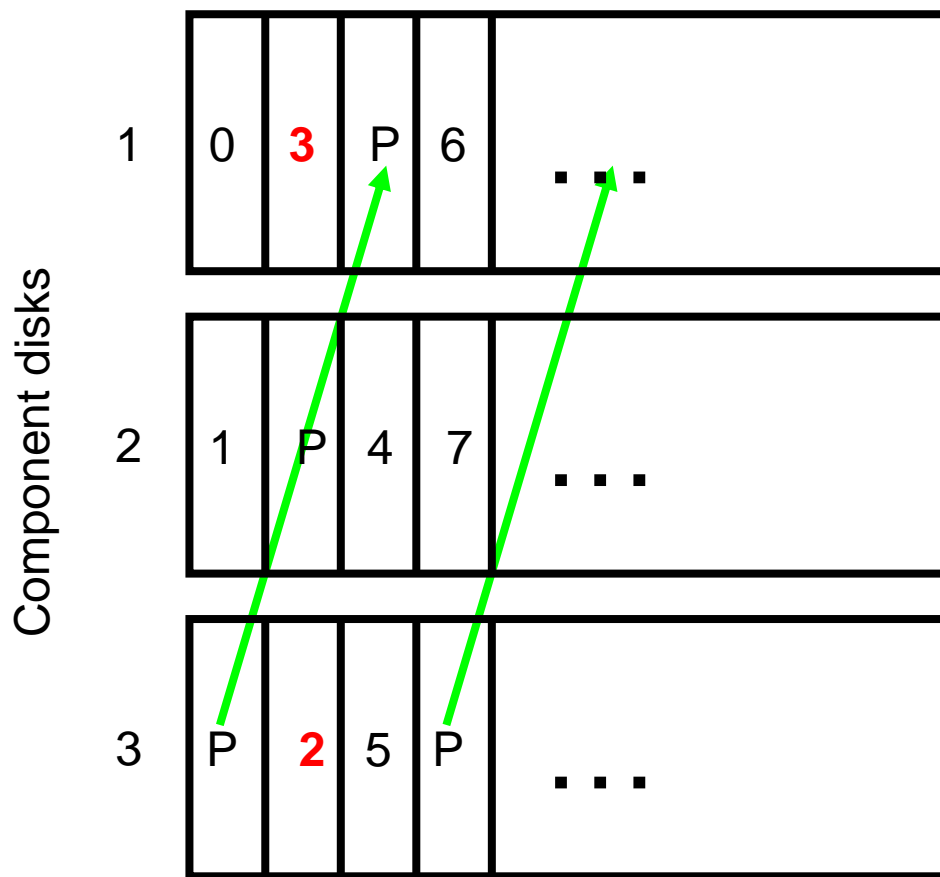
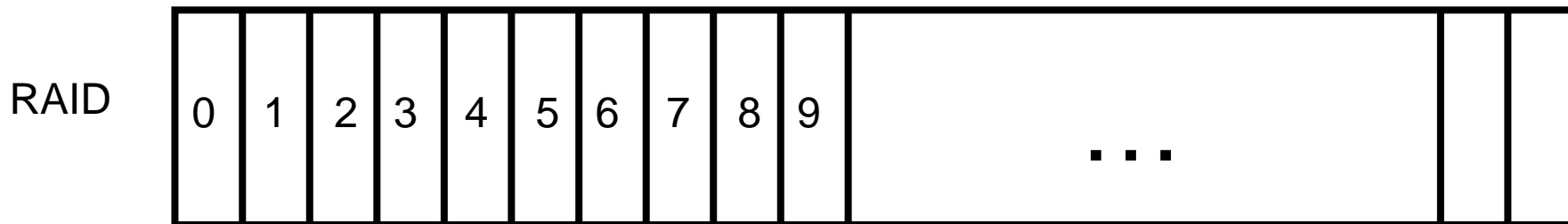
Component disks



# RAID 5

backward parity  
aka left asymmetric  
(used in Adaptec chip sets)

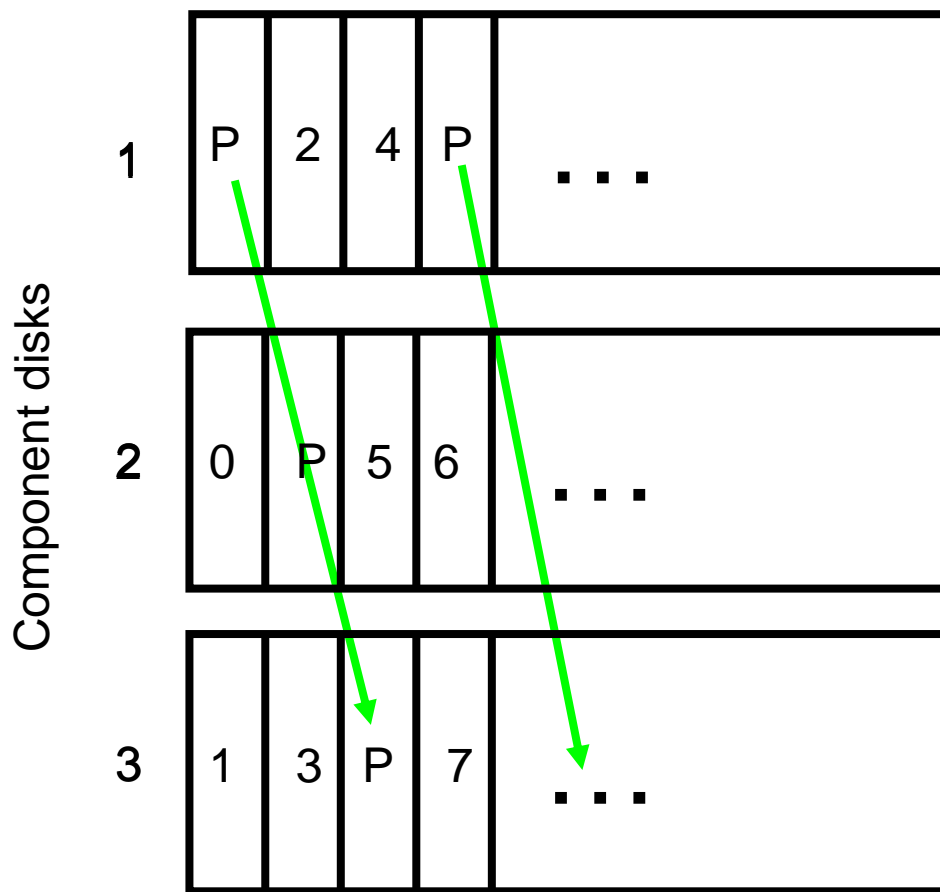
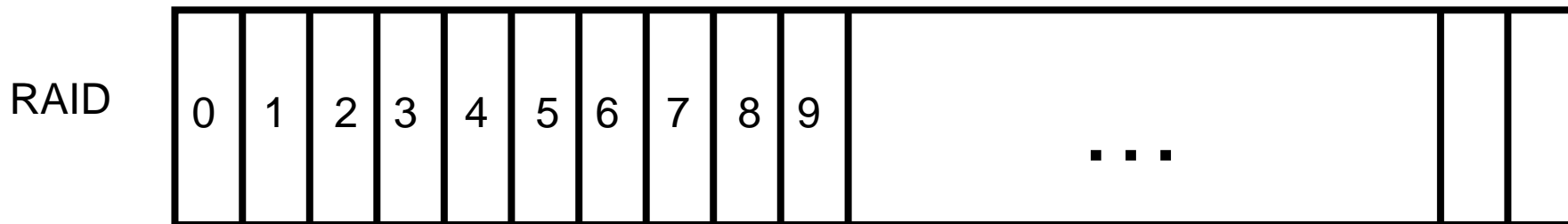
Notice rotating parity (XOR)  
starting at last component, with  
lowest strip always on lowest  
component.



# RAID 5

backward dynamic parity  
aka left symmetric  
(used in AMI chip sets)

Notice the change in strip order:  
lowest strip always on component  
following parity; parity rotation as  
before

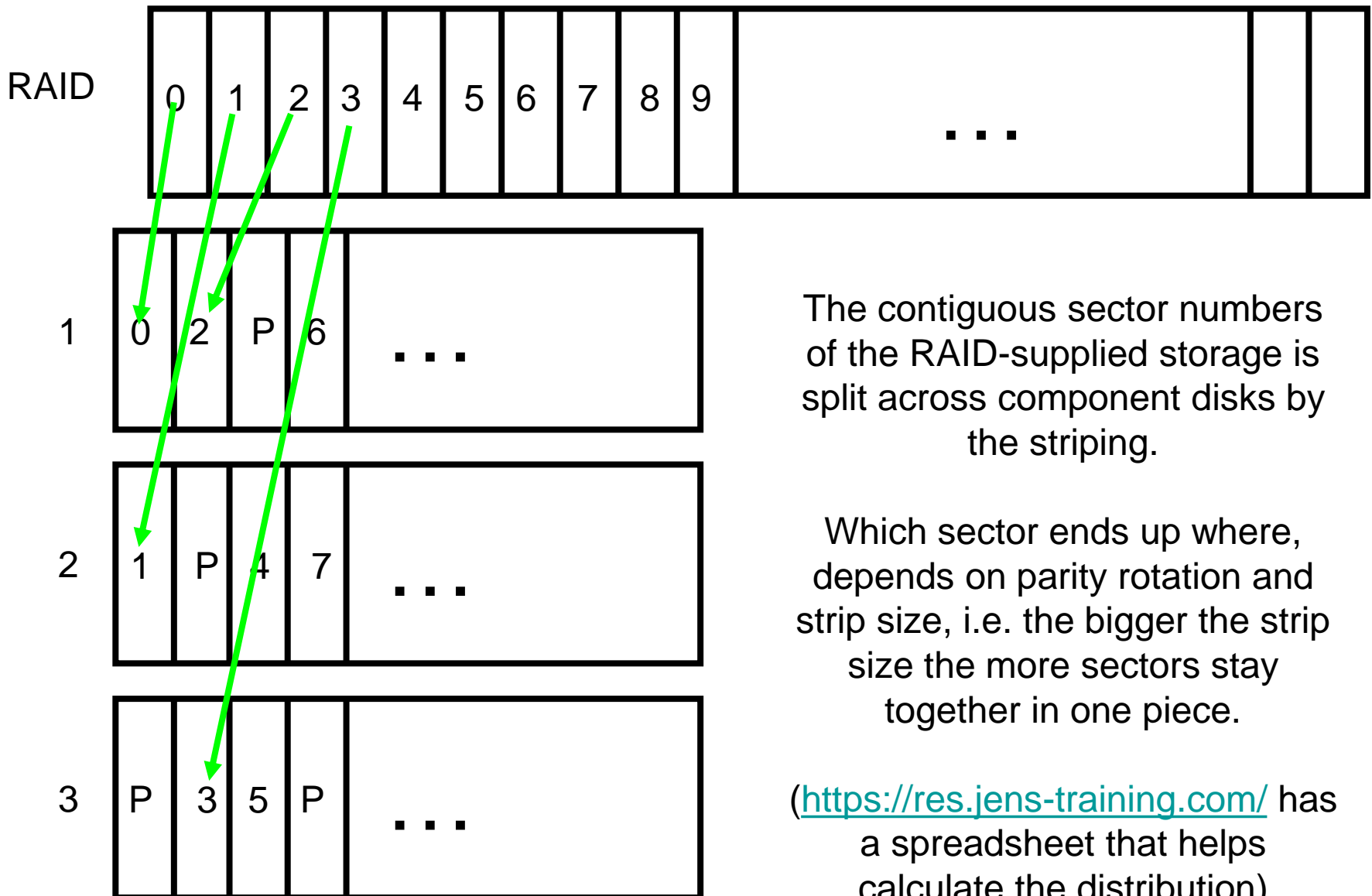


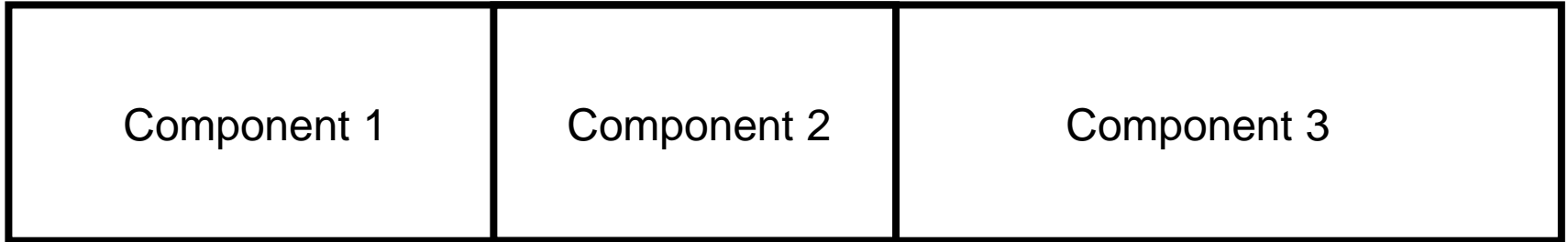
# RAID 5

Forward parity reverses rotation

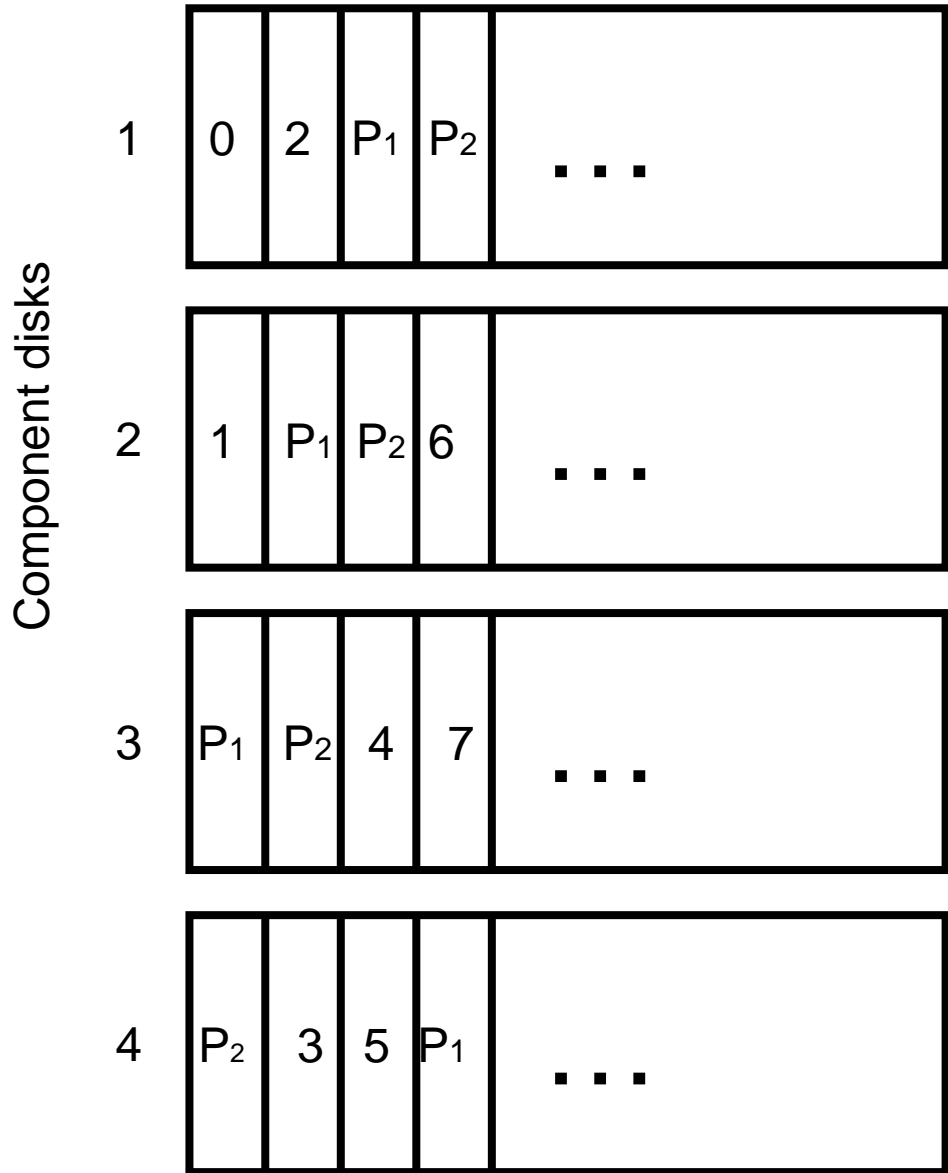
(shown here in non-dynamic, aka right asymmetric arrangement; also comes in dynamic, aka right symmetric)

# Data positioning





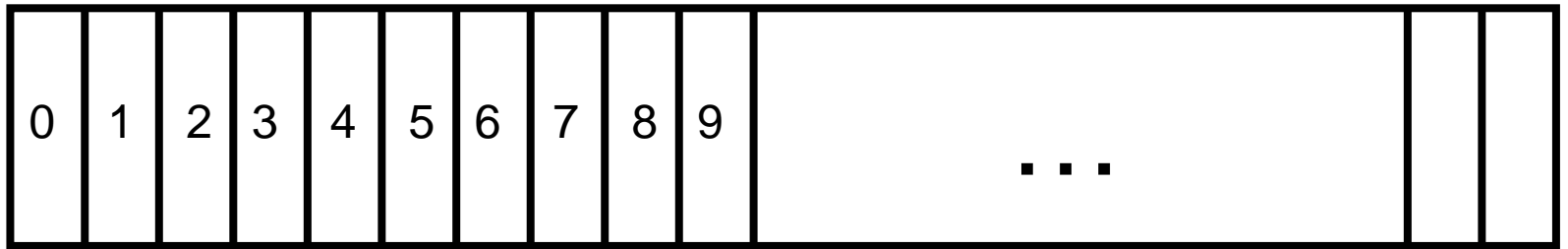
**JBOD**



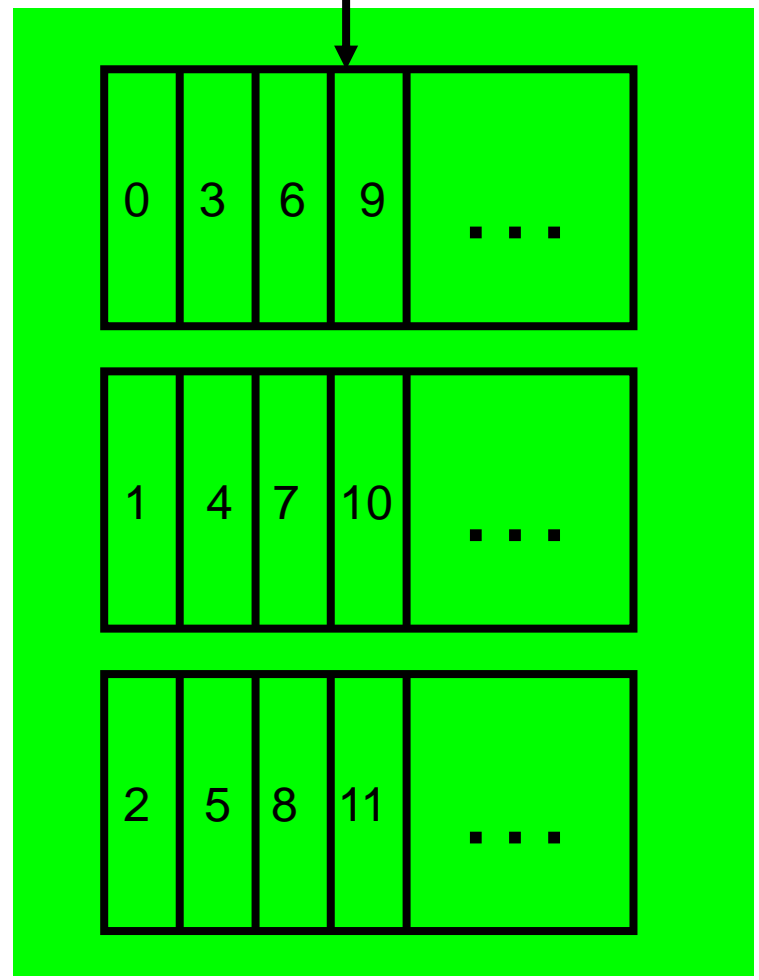
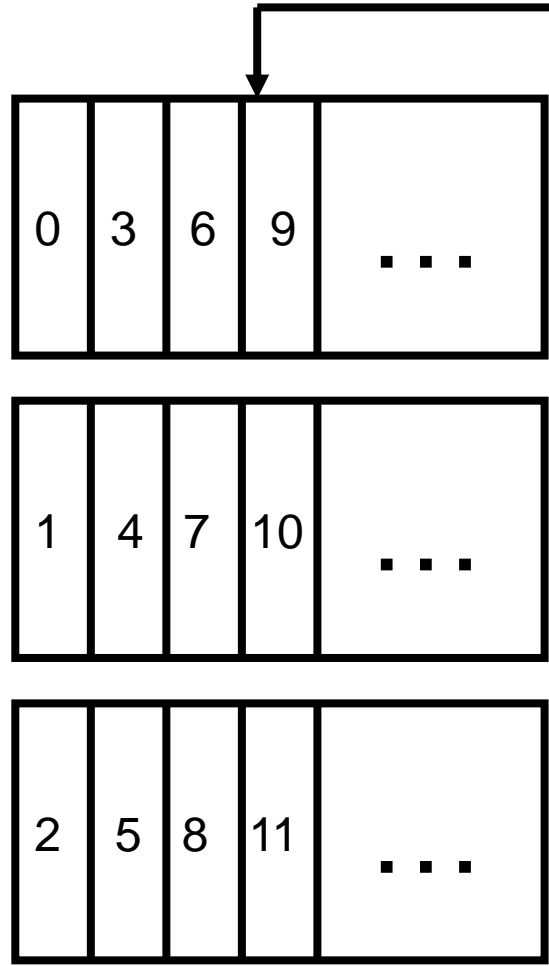
# RAID 6

(Reed-Solomon for second parity, XOR for first)

RAID

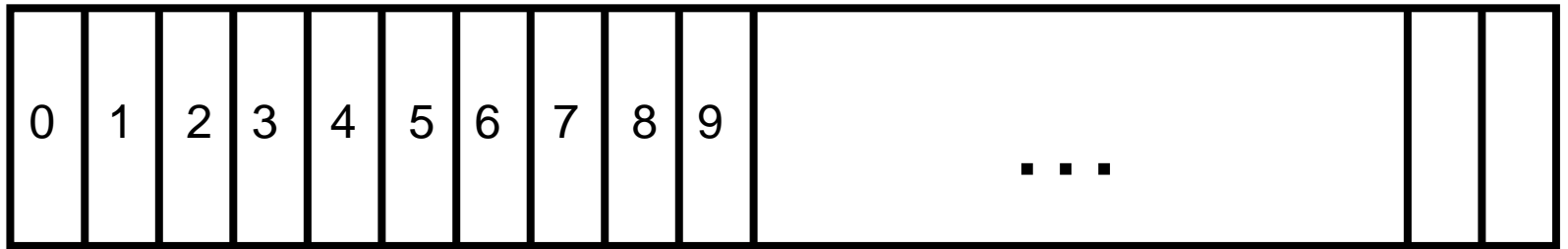


# RAID 10

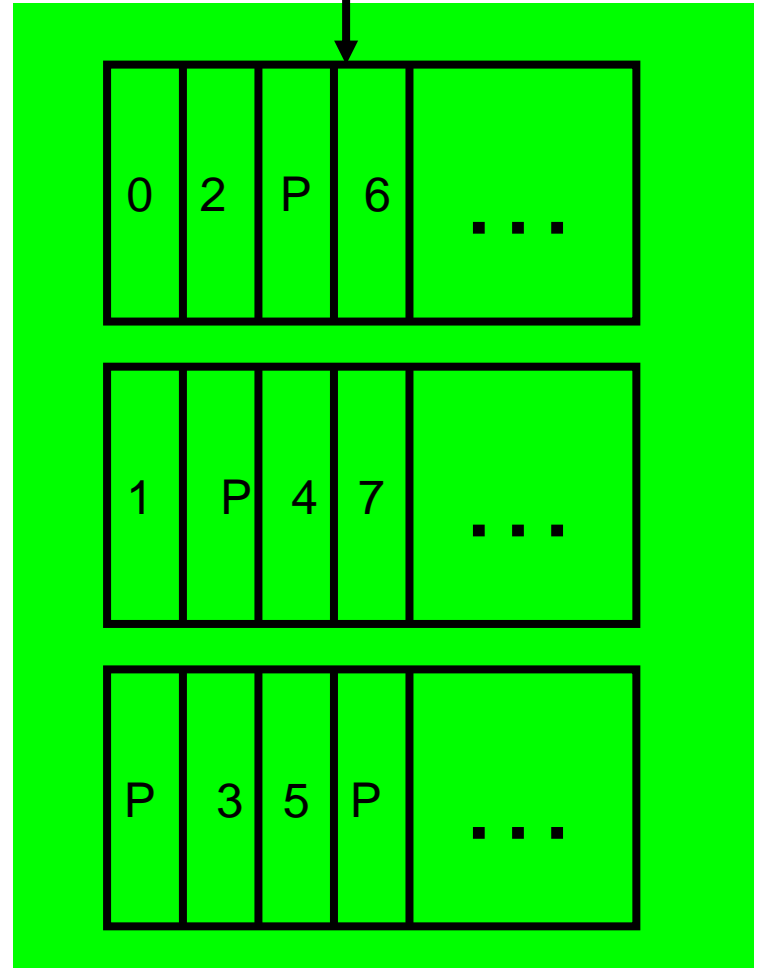
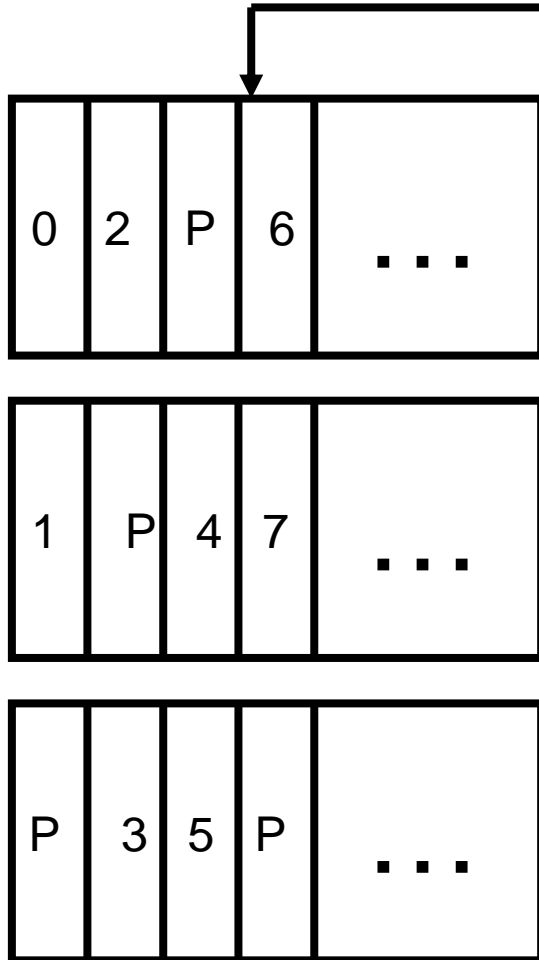




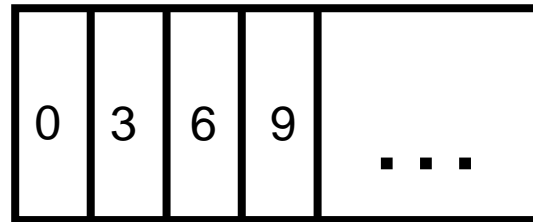
RAID



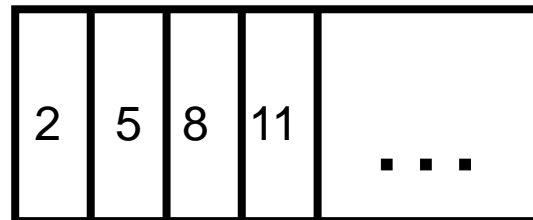
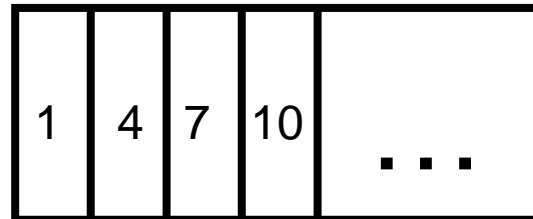
# RAID 15



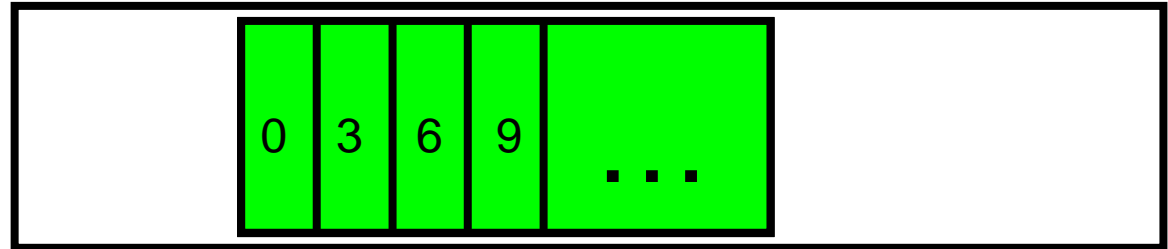
# RAID



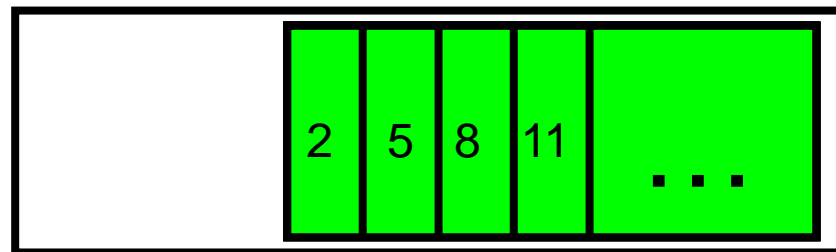
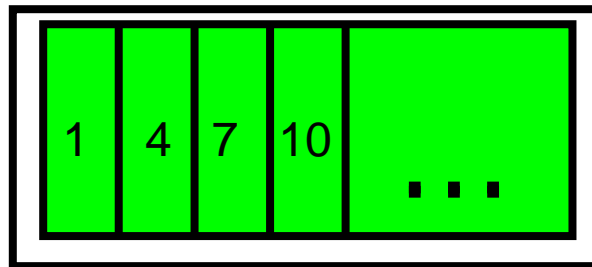
Ordinary RAID components  
are whole disks



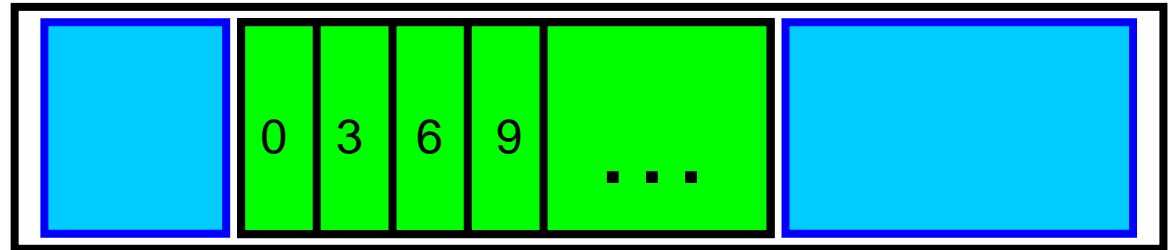
# Linux MD RAID



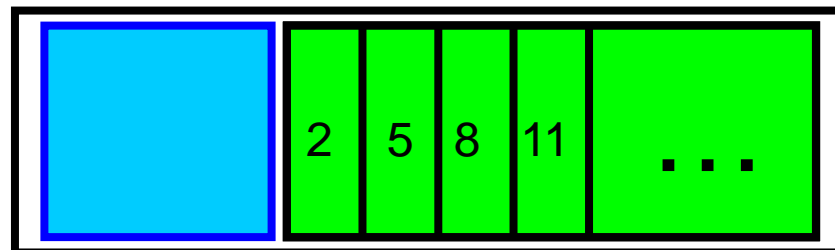
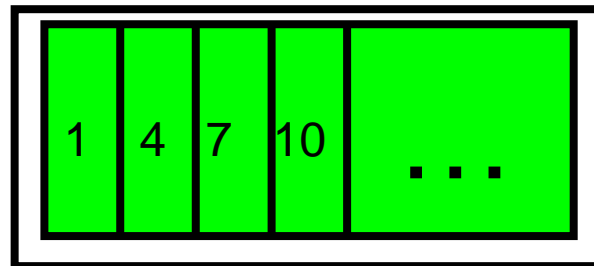
Linux MD RAID components  
are individual partitions



# Linux MD RAID



Any leftover space on the disks can be used for other, unrelated partitions



# Linux MD RAID

<https://res.jens-training.com>

