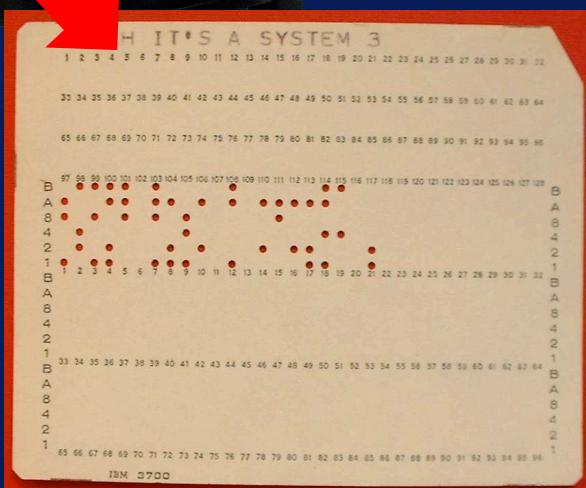
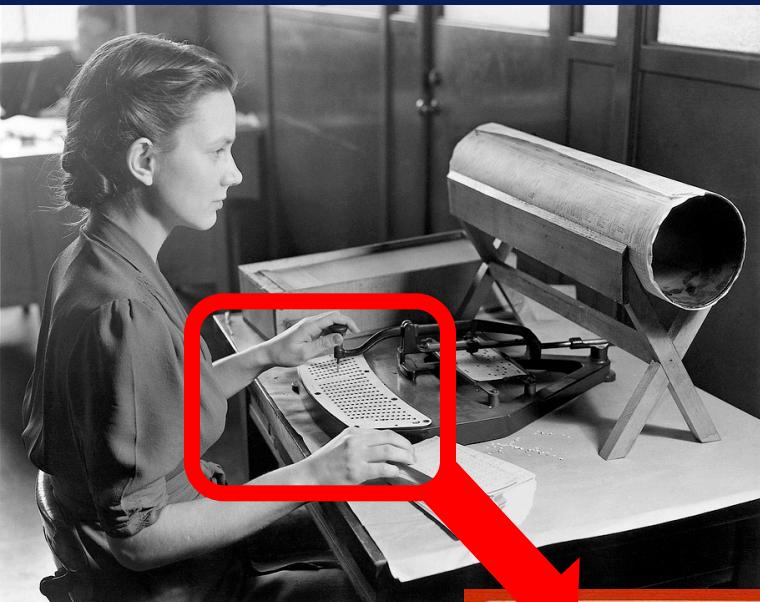


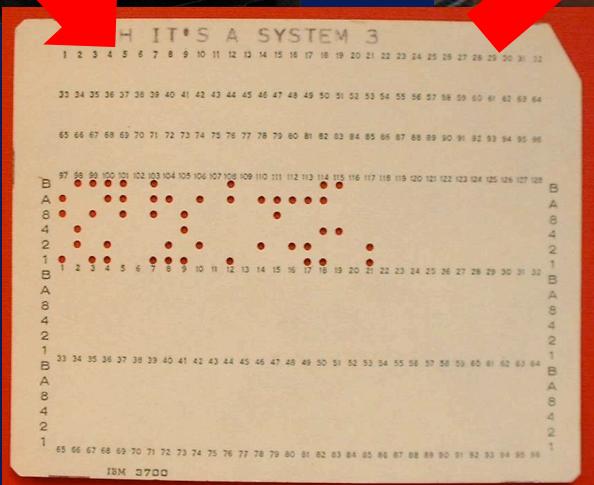
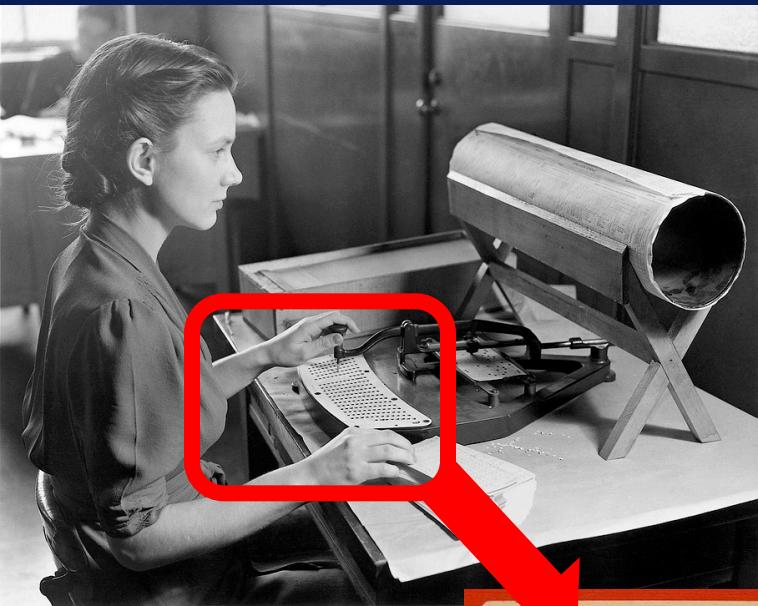
What is a Distributed File System?:

Why are there so many?









Long-term information storage

Long-term information storage

Access result of a process later

Long-term information storage

Access result of a process later

Store large amounts of information

Long-term information storage

Access result of a process later

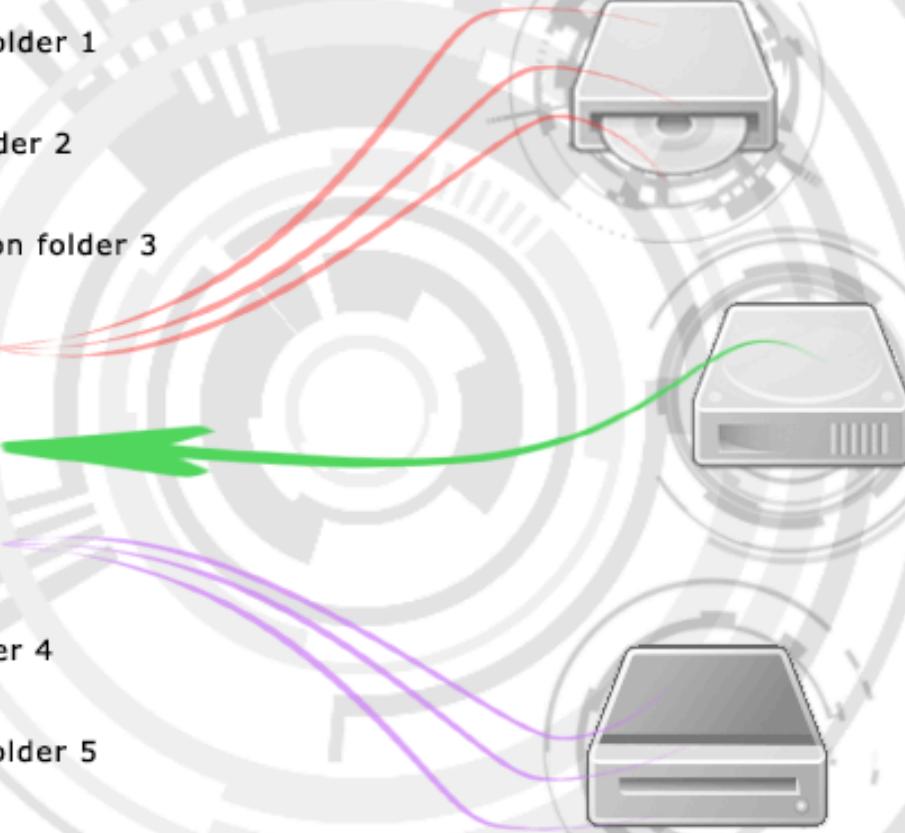
Store large amounts of information

Enable access of multiple processes



UNIX ROOT FILE SYSTEM

- system folder 1
- home folder 2
- application folder 3
- mount 1
- mount 2
- mount 3
- help folder 4
- service folder 5
- etc folder 6



Accessing files





64GB

256GB

1TB

5TB





?

What if you have more data?



Buy a bigger disk?

OR



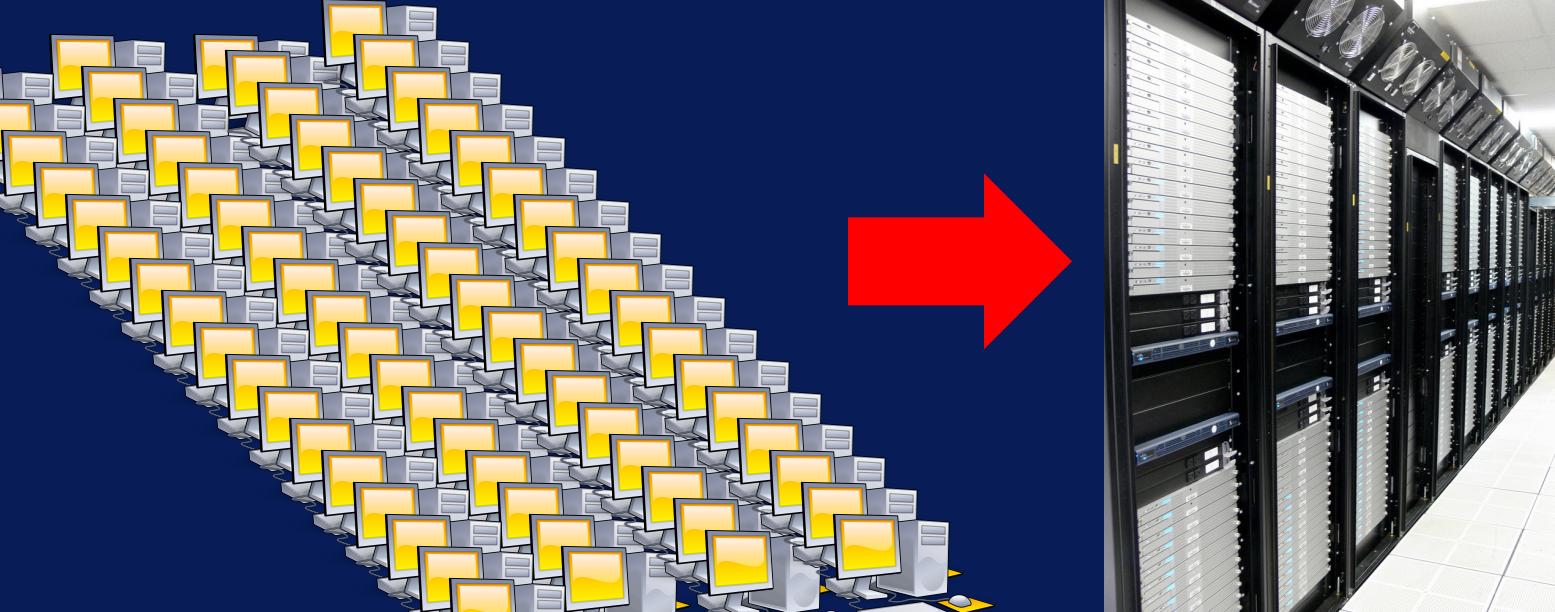
Copy data to an external hard drive?

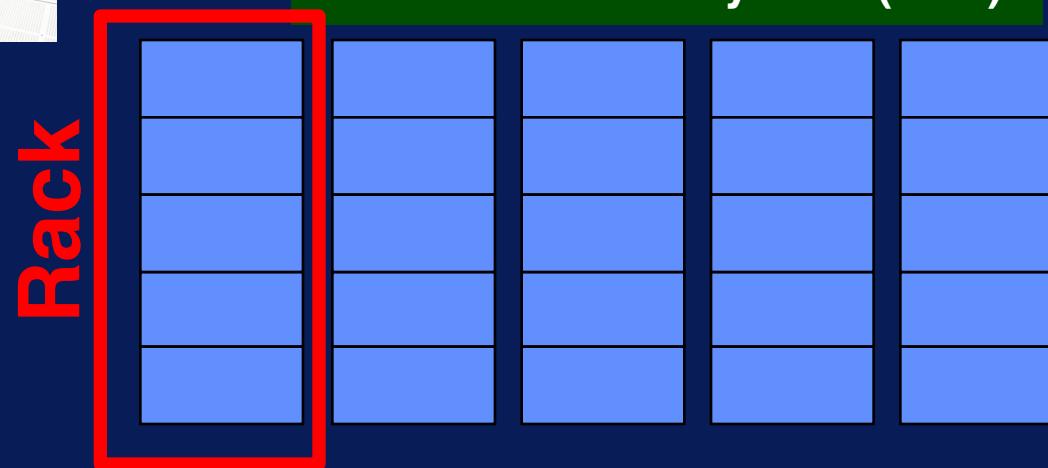
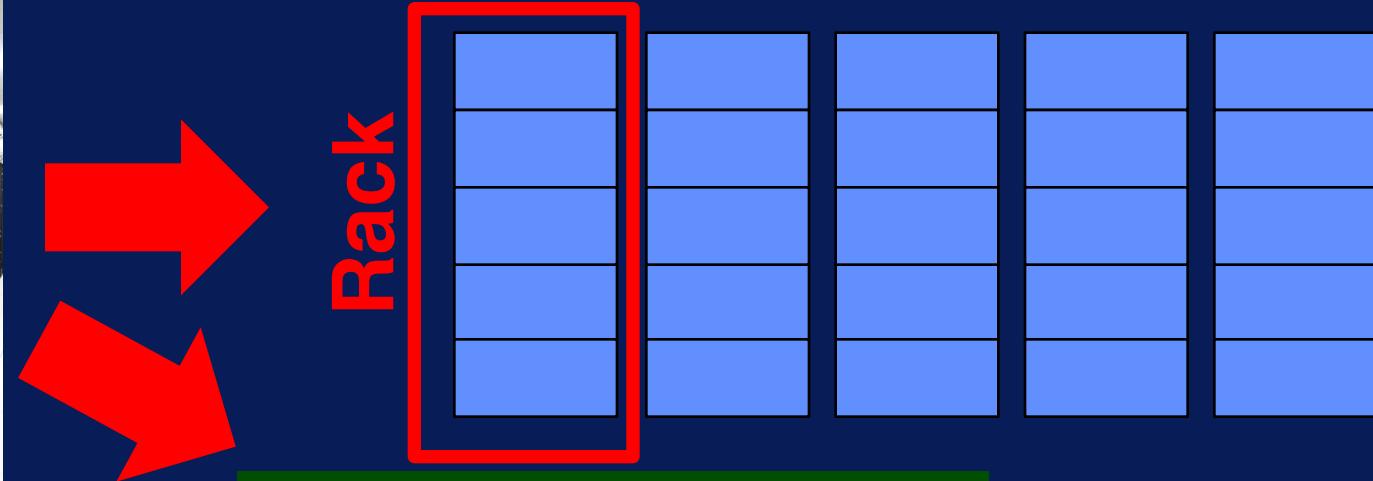


WORK

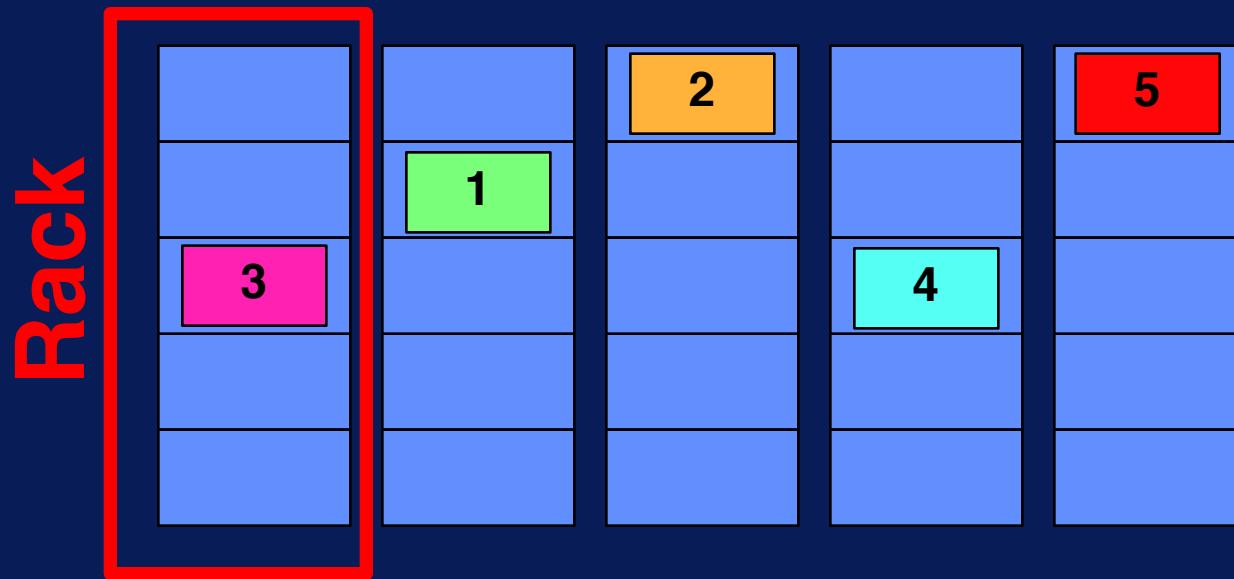


PERSONAL

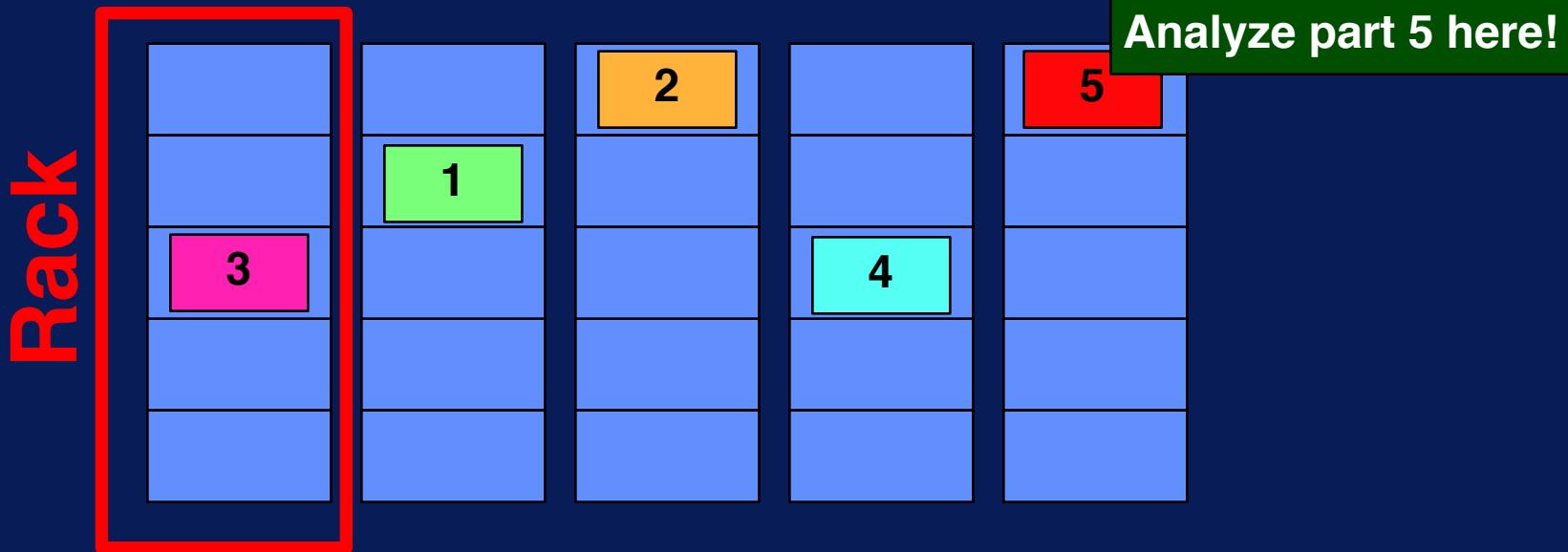
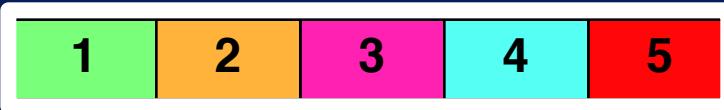




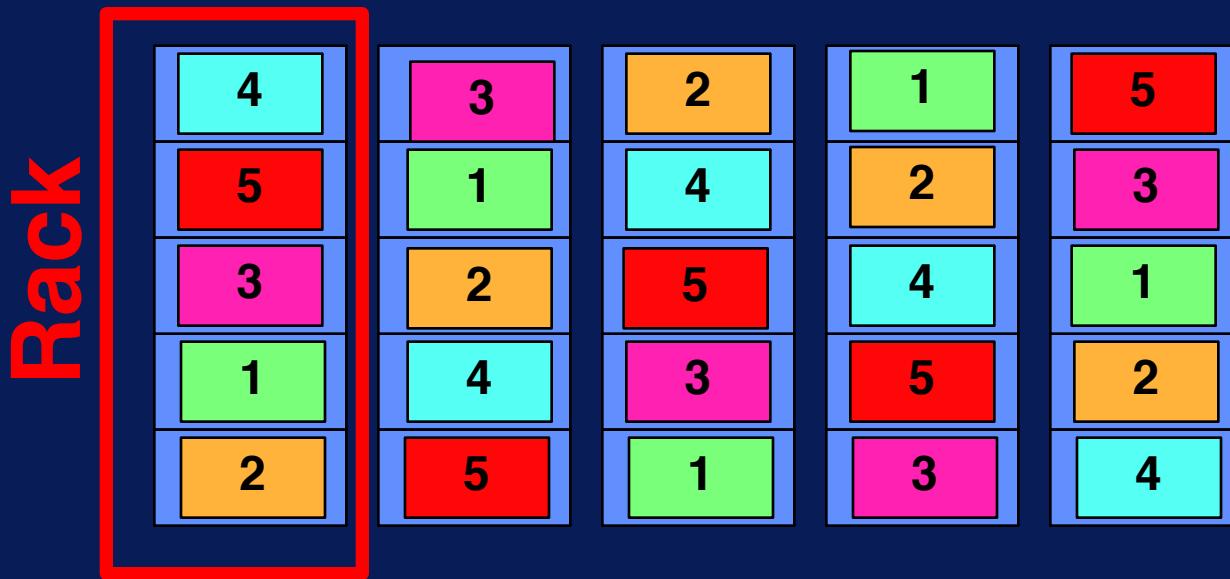
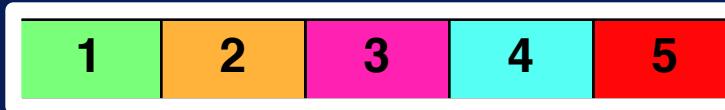
Data



Data



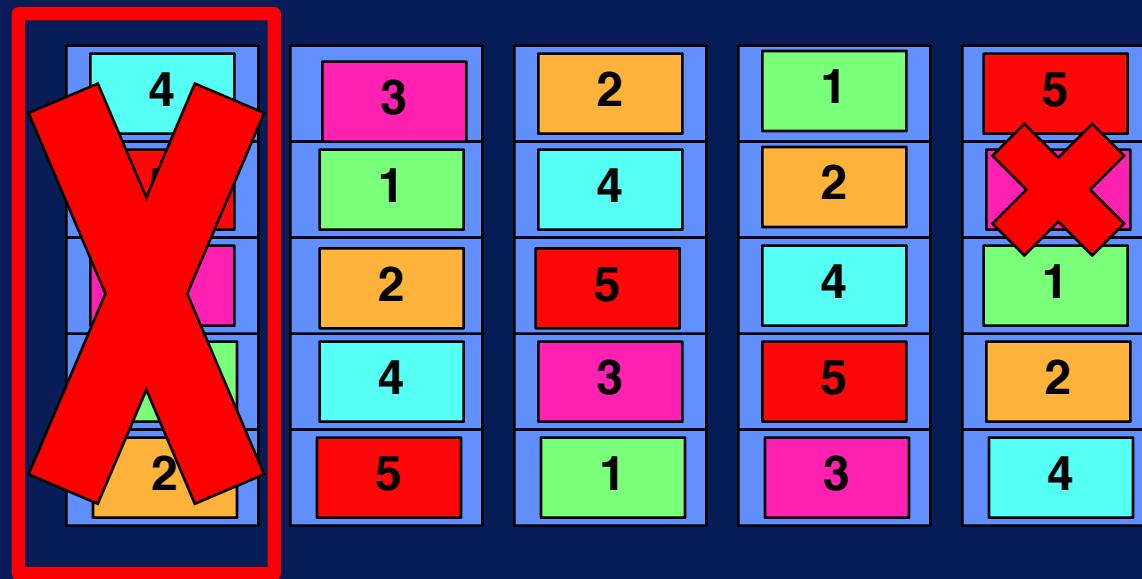
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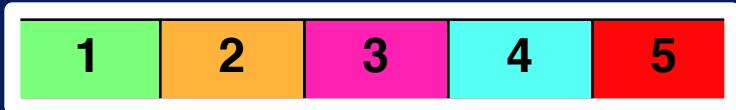
Data



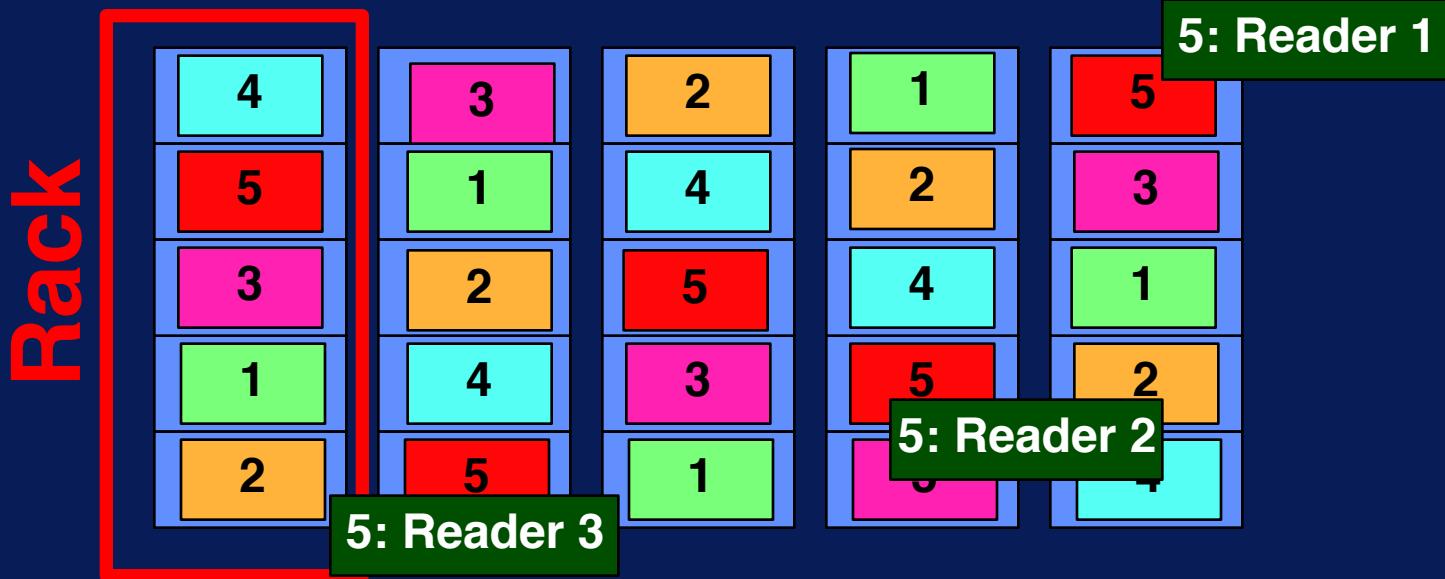
Rack

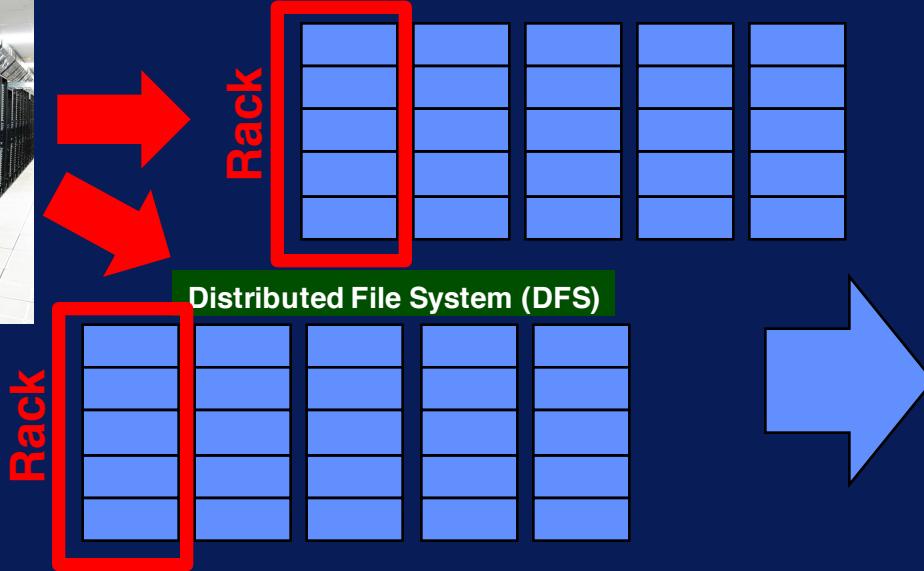


Data



High Concurrency
vs.
Low Consistency





Data partitioning

Data replication

Data scalability

Fault tolerance

High concurrency