

Chord

finger table

Hash $f \sim H() \rightarrow \{64 \text{ bits}\}$

- Consistent Hashing

- nodes

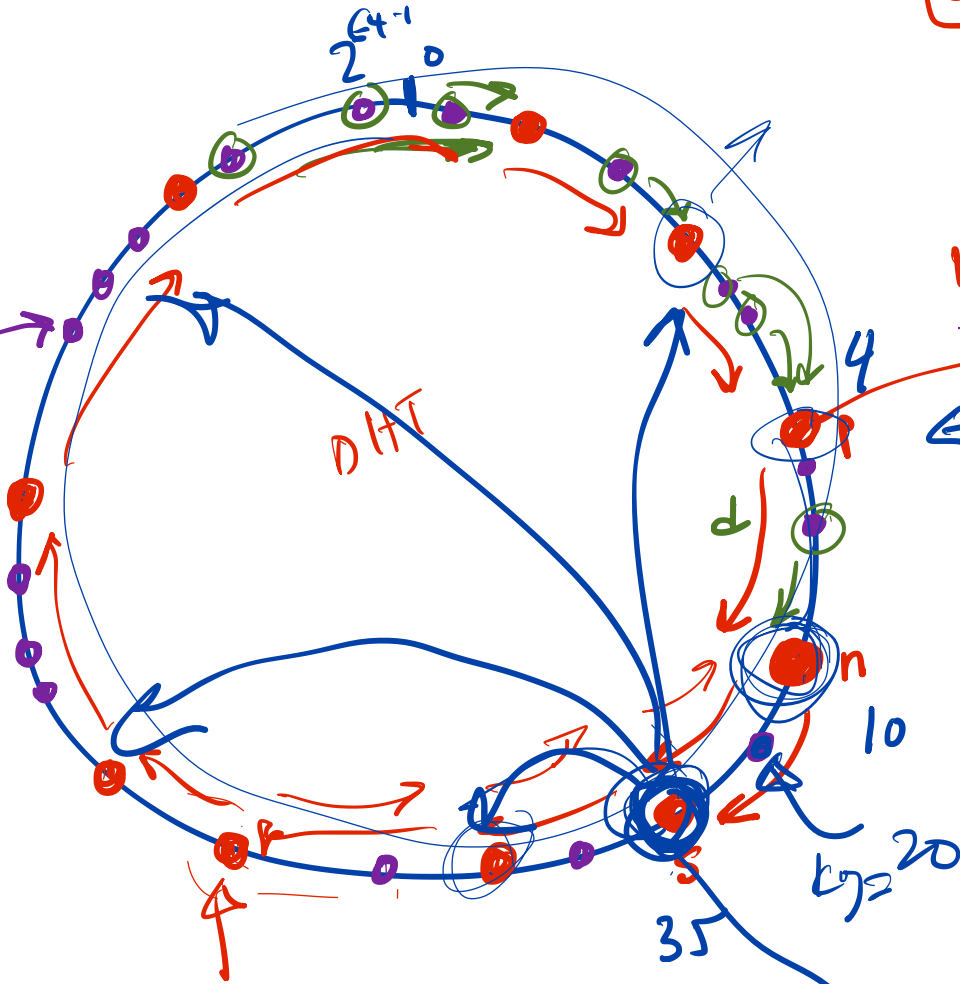
- data

$H("...")$
key \rightarrow

node n
 $H("IP:port")$

put(20)

n :
 p : pred
 s : succ



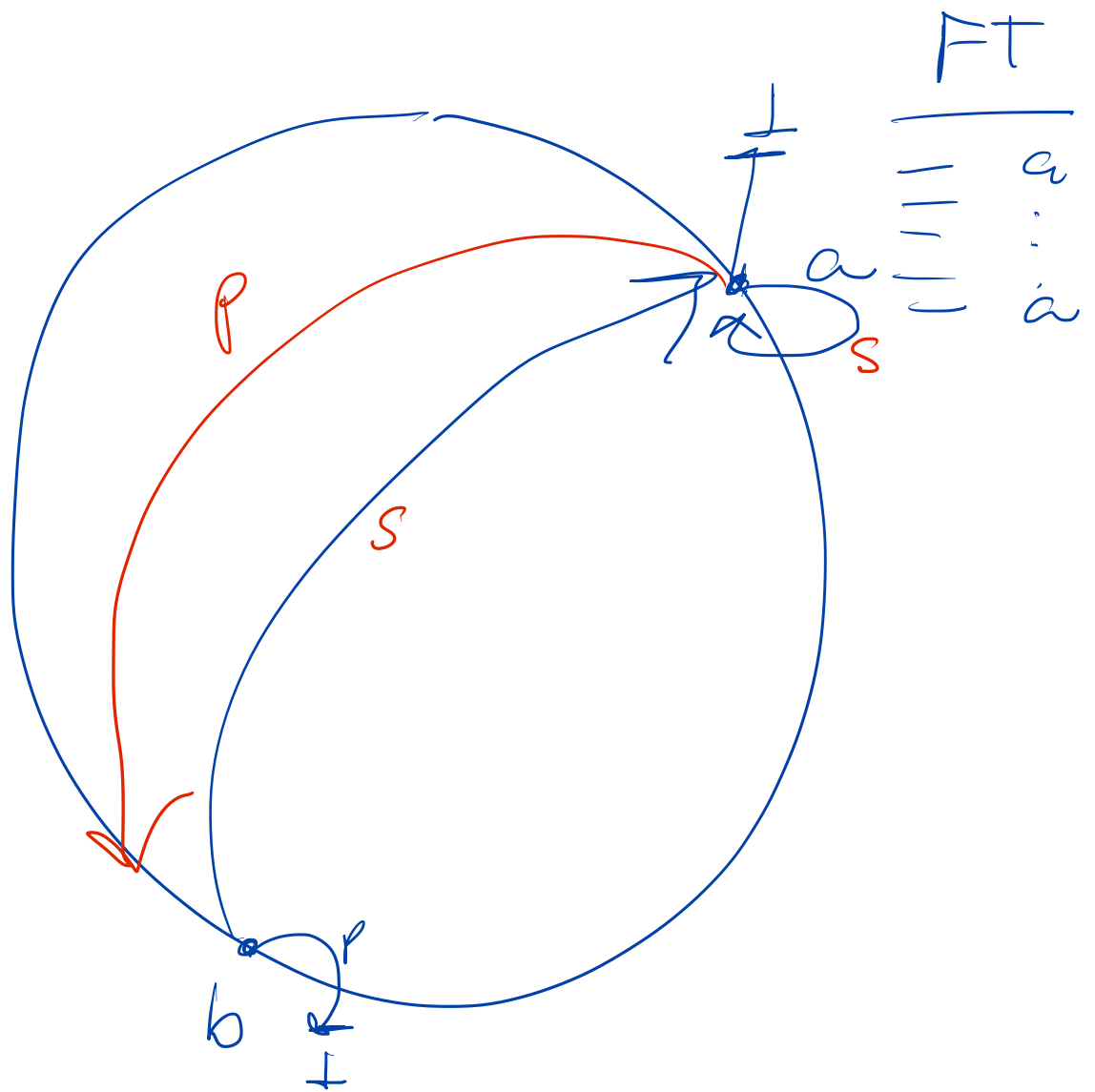
data \leftarrow lookup (0x...) H space

clients

$$x + 2^i$$

$$i \in (0..63)$$

$$\begin{array}{r} x + 1 \\ x + 2 \\ x + 4 \\ \vdots \\ x + 2^{63} \end{array}$$



$a \cdot \text{succ} \cdot \text{notify}(a)$

- b calls a
 $a \cdot \text{notify}(b)$