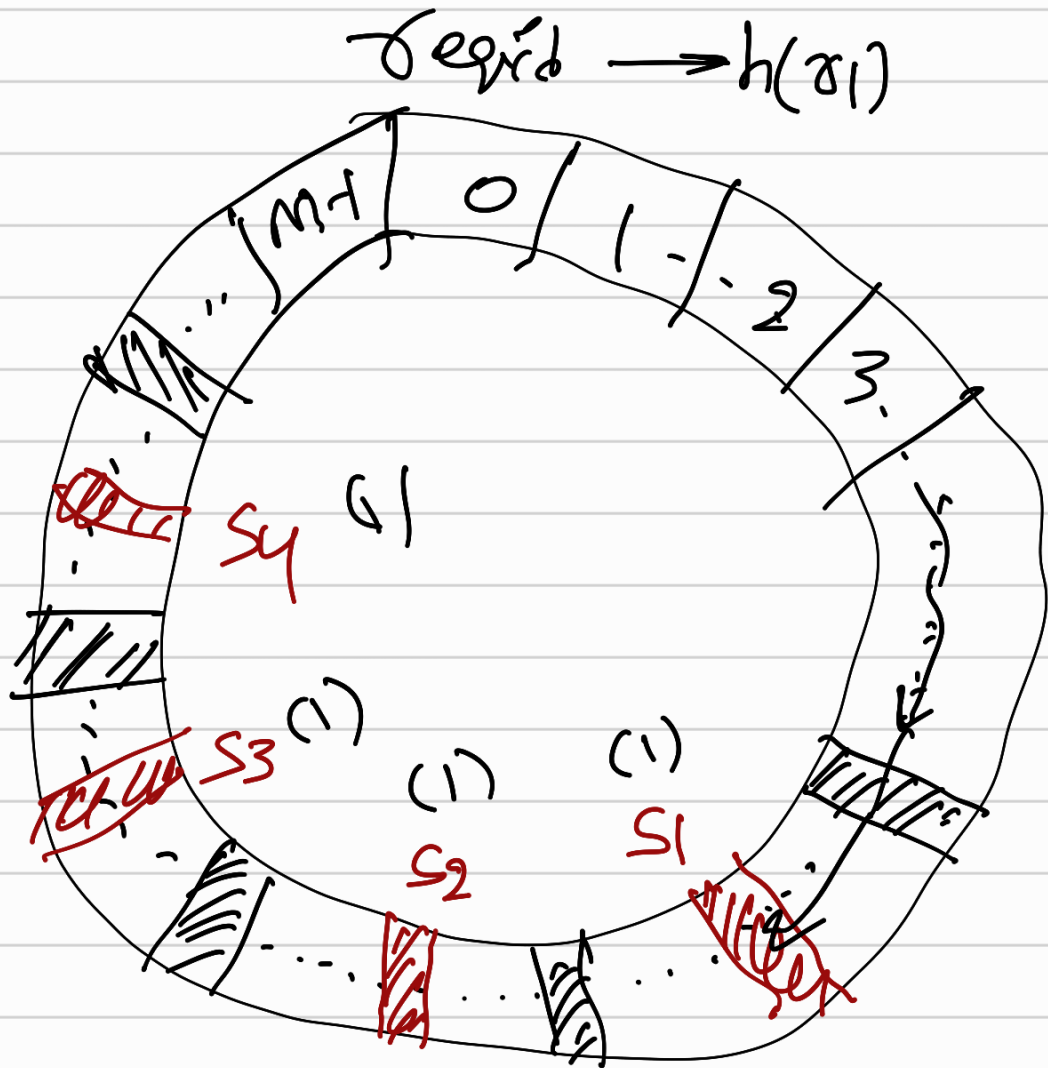


4. Consistent Hashing & where it is used?

✓ problem is adding / removing servers.



$$h(0) \% M$$

$$h(1) \% M$$

$$h(2) \% M$$

$$h(3) \% M$$

$$h(0) \% 30$$

$$\Rightarrow 49 \% 30$$

$$\Rightarrow 19$$

From ByteBytego.com (YT)

Avro  
DynamoDB  
Apache Cassandra  
Redis

} They all use  
Consistent Hashing

✓ In a large scale distributed system  
data doesn't fit on a single server.

✓ They are distributed across  
many machines.

✓ This is called Horizontal scaling

