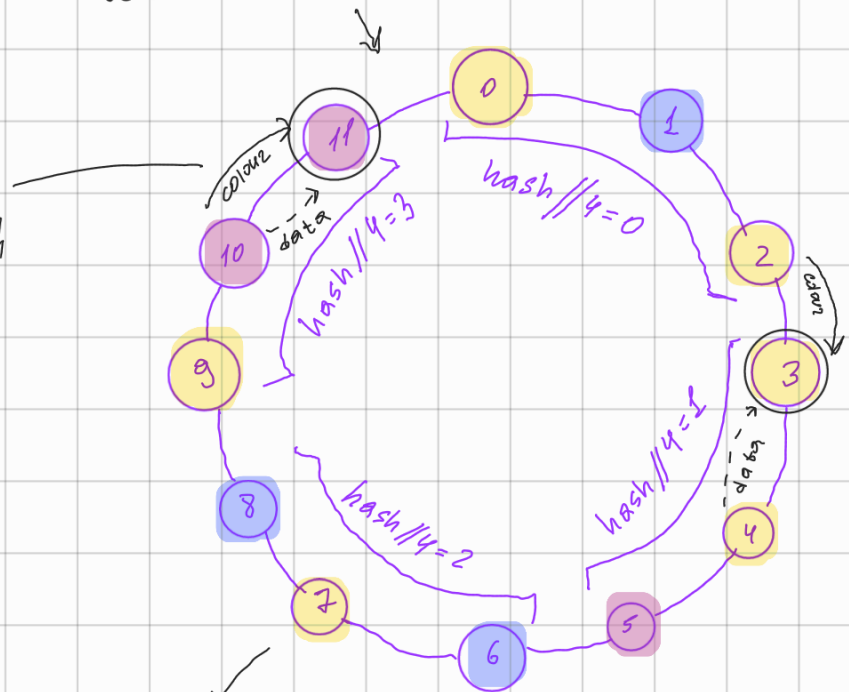


the colour denotes a physical server, which stores the node

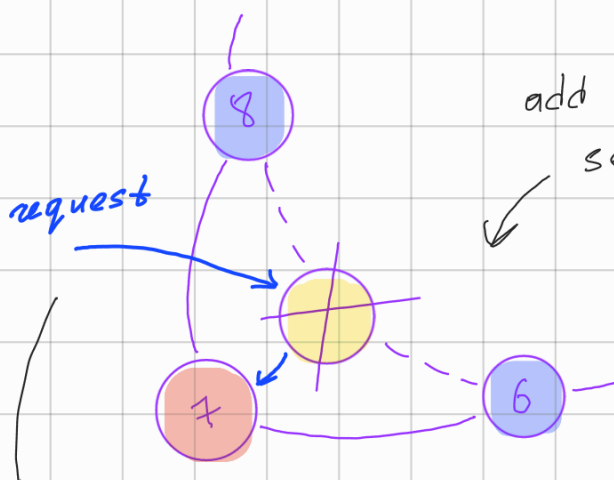
all the data is duplicated across $P=3$ nodes
 \Rightarrow nodes $[0, 1, 2]$ have the same data

the green server became unavailable

the server, that is responsible for the $(n-1)^{th}$ node becomes also responsible for the failed n^{th} node.



add a physical server



we move a virtual node to the new server & notify about it all other nodes

during some timeout, until not all the nodes received information about the changes, the old node remains alive & redirects requests to the new one