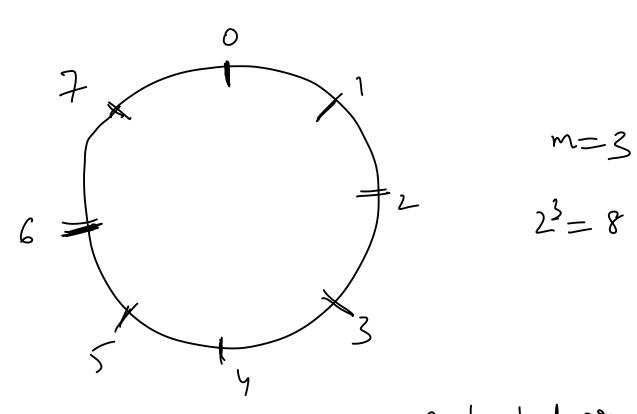


Chord destributed hash table [2001]



- Dhotoputed because data le has hed or partetioned across multiple nodes or marbhes
- Each node Rs assigned an 10.

 Node $Id \in [0, 2^m i]$

m bet storng => 2 map. no. Bnodes Xs We hesh the (IP add ress + port) to a m bet storns

Each data Hernfobject es also hashed to generate a key b/ω 0 and $2^{m}-1$ $\mu(\chi) = \sum_{i=1}^{k} key \in [0, 2^{m}-1]$ J data Men Succ(k)≥k Data Hen with bey k goes to the node with the smallest 10 ≥ k 7(M6) 6 + 1-3 k=3=) M6 k = 0 succ(0) = 0 succ(6)=6 $k=3 \implies M6$ b=1 succ(1)=2 succ(7)=0 2 Succ(2)=2 k=7=) Mo 8 ucc (3) = 6 k=0 =) MO

Any request for storing a new data Object/Hem or retolering an experting data object can come to any node present in the Or cular sing. How do me epperently search Bor the right node on which data is stored or should be stred Shuple lookup/search O(i) -, Space complexity

O Each node needs to store only the successor

no de details node detalls 2) A grussy for key n is Borwarded to the su wessons of nodes until Pt reaches the Bost node such that the node's Robentagron y & greater than x (modulo 2m)

