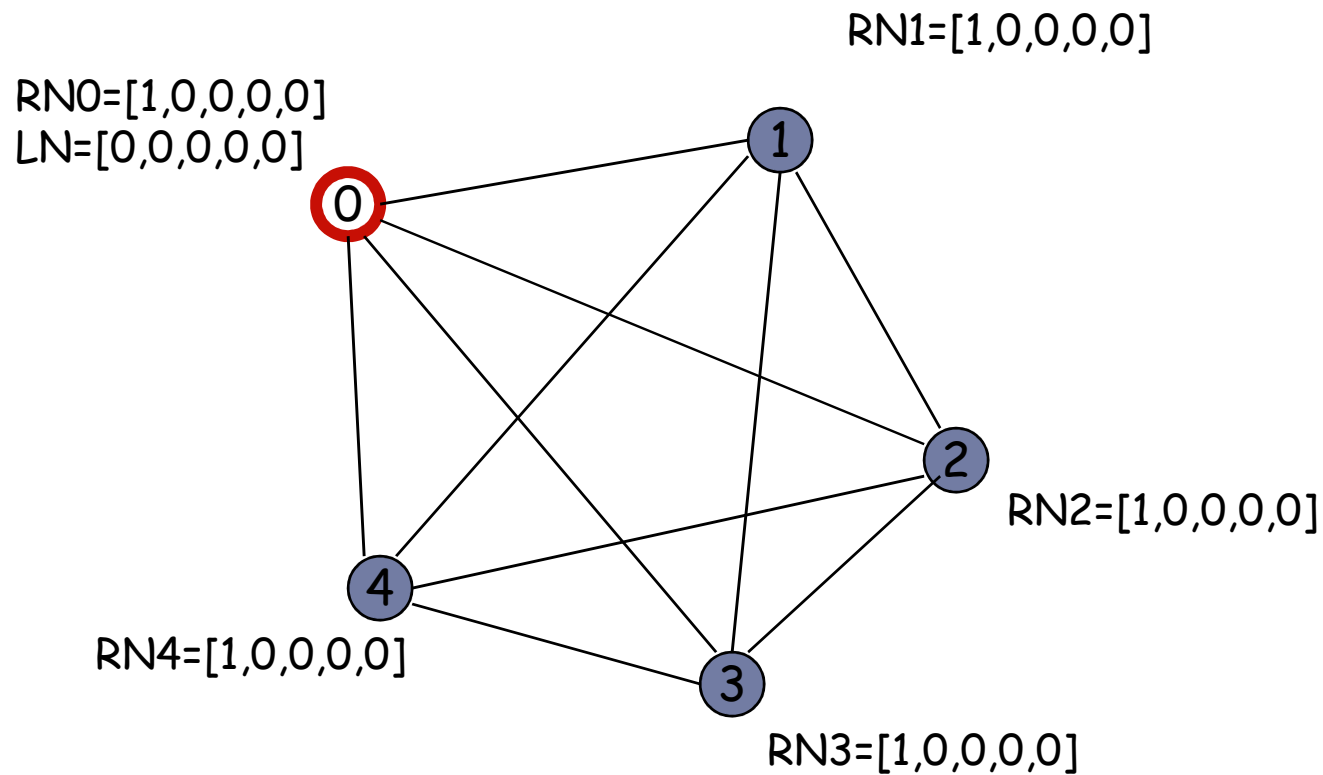


Suzuki Kasami's Distributed Mutual Exclusion Algorithm

Reference : Mukesh Singhal & N.G. Shivaratri,
Advanced Concepts in Operating Systems, 5th Edition

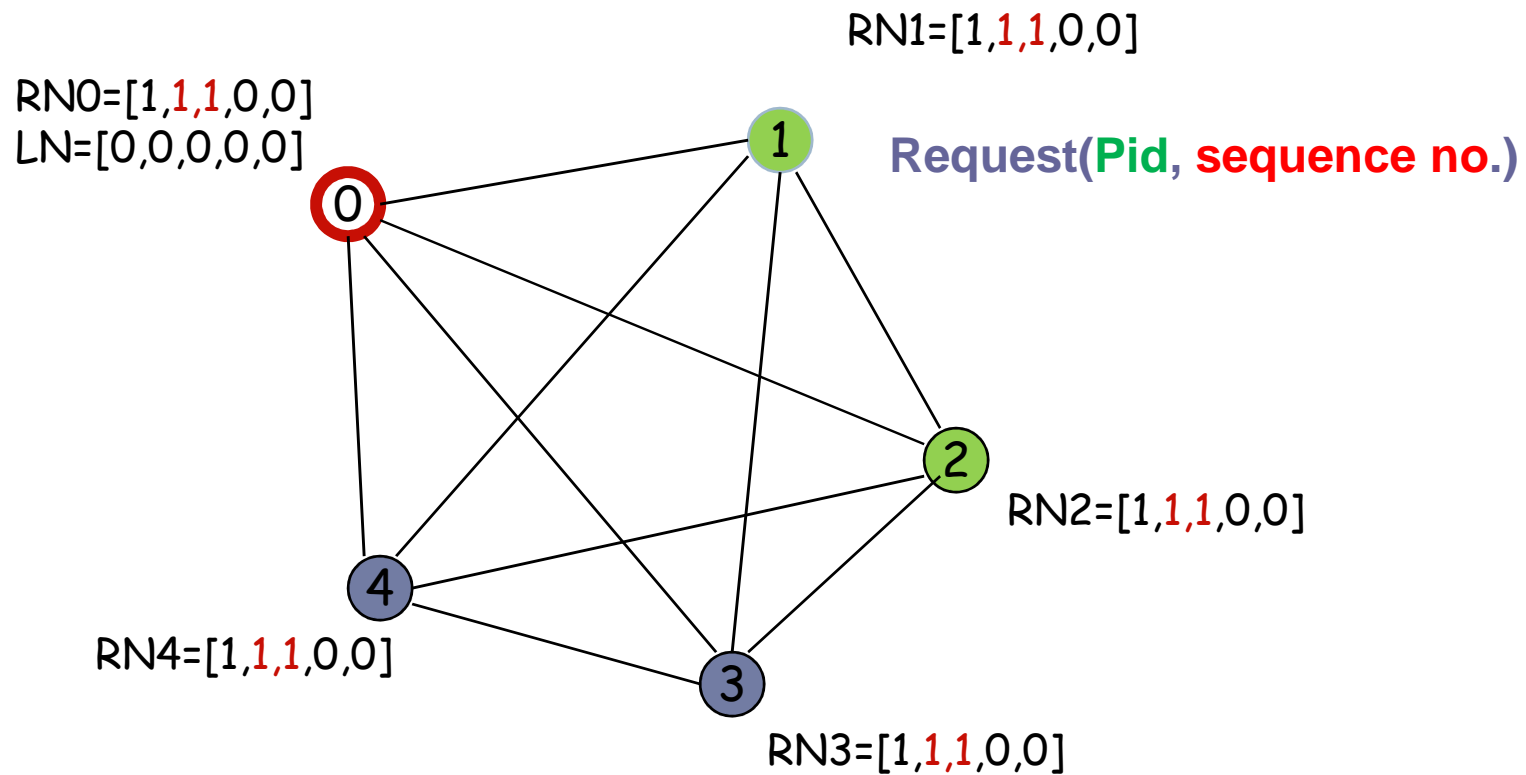
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



initial state: process 0 has sent a request to all, and grabbed the token



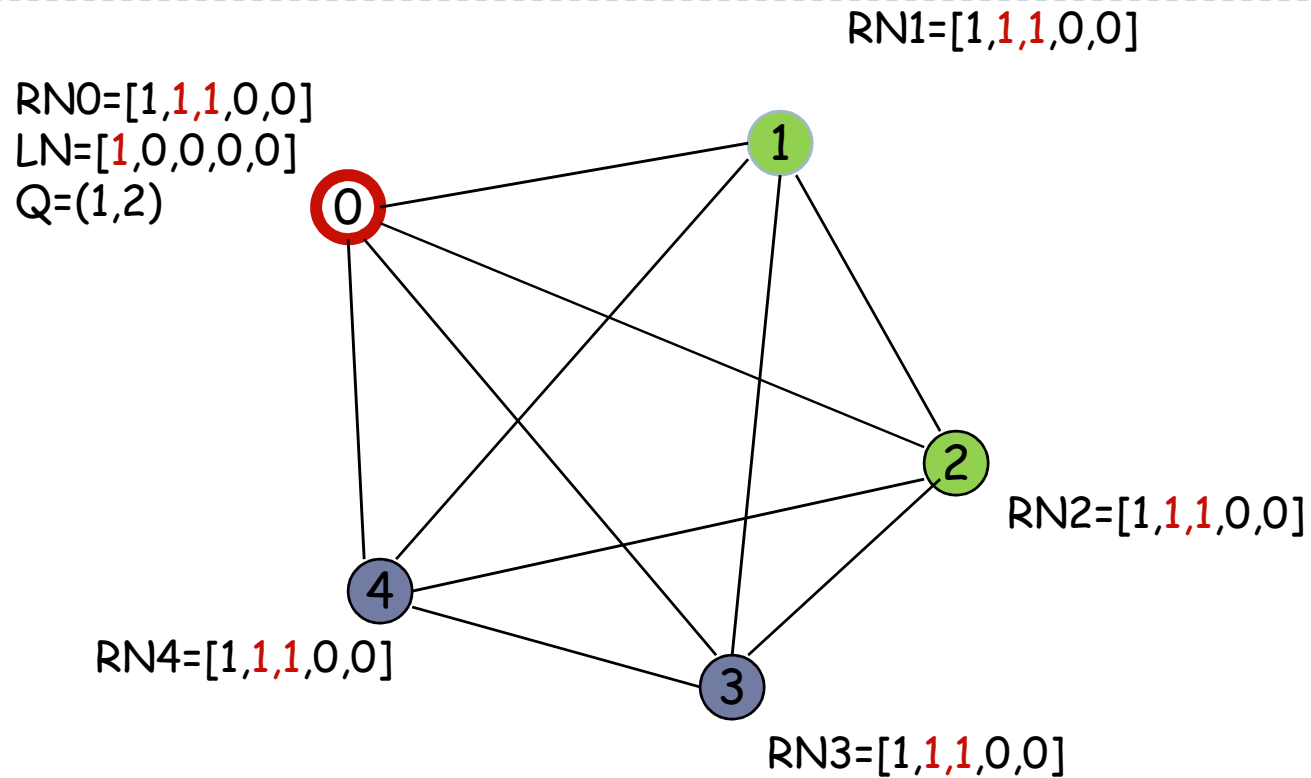
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



1 & 2 send requests to enter CS



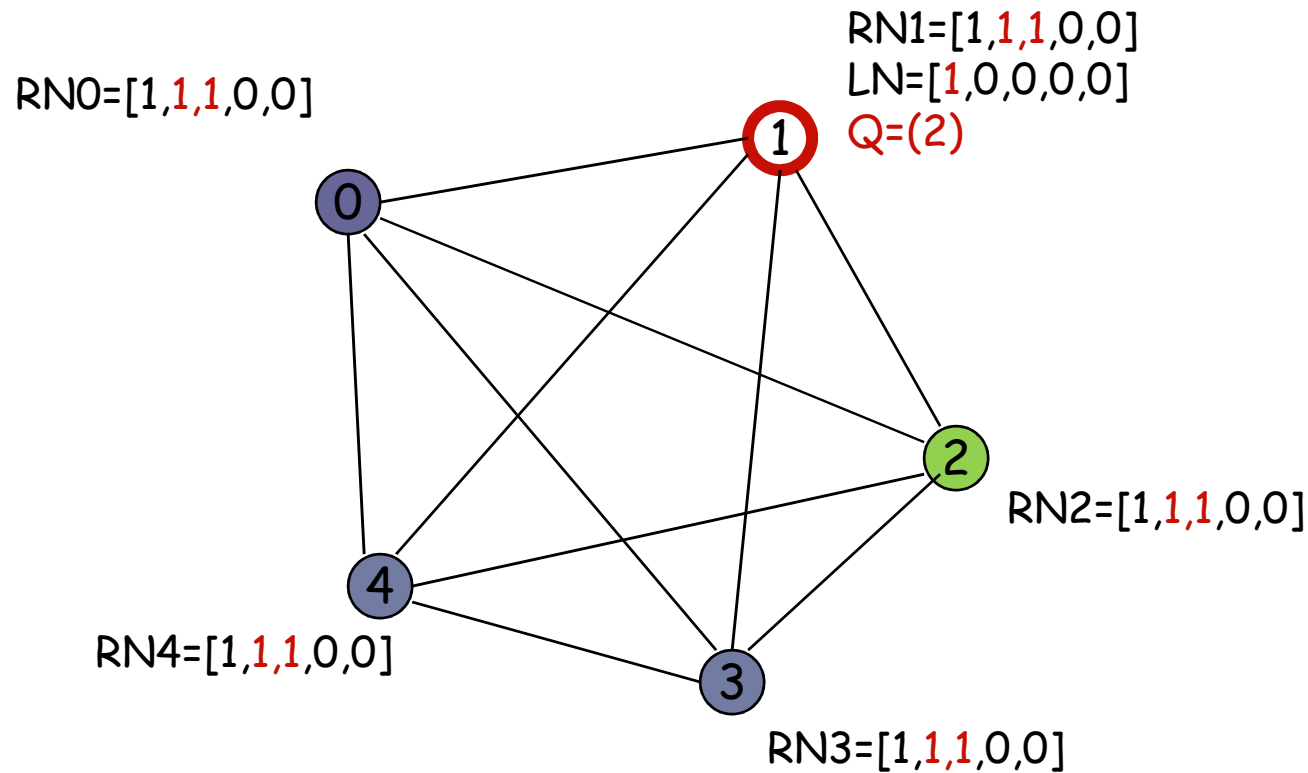
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



0 prepares to exit CS



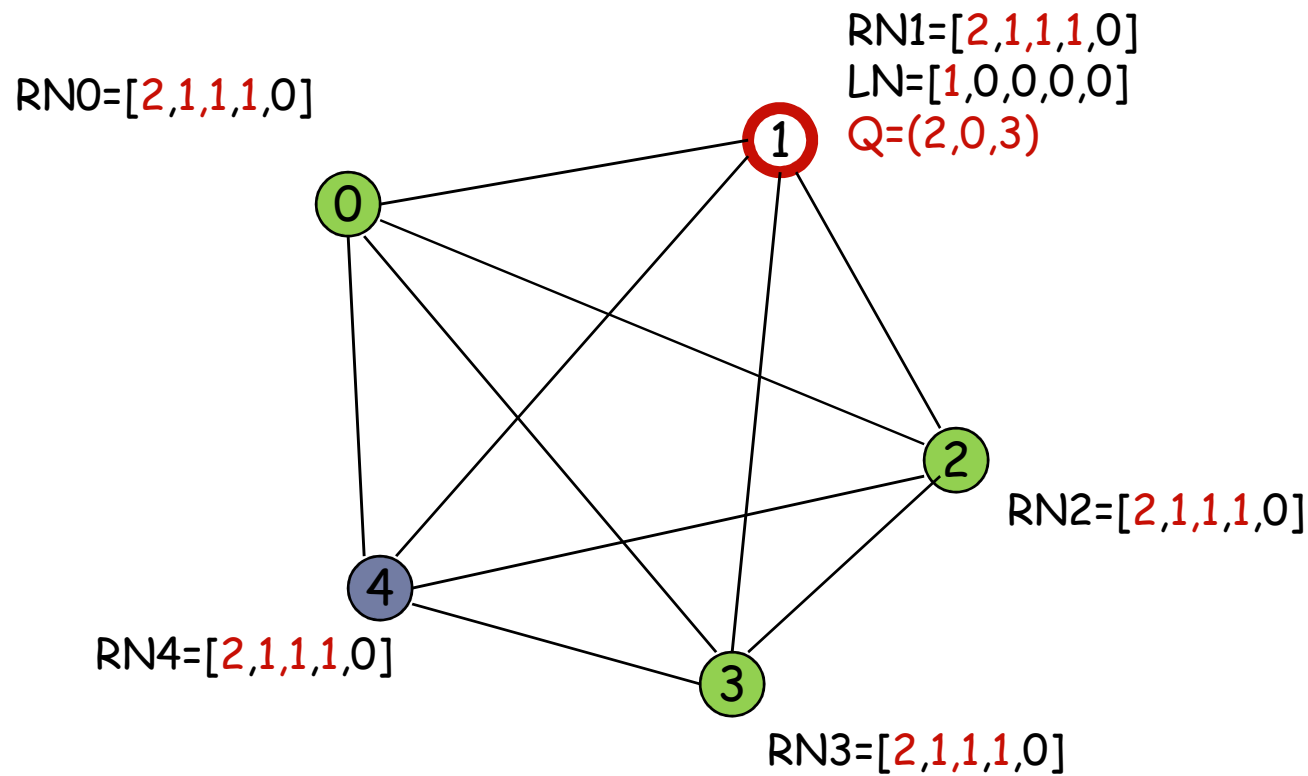
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



0 passes token (Q and last) to 1



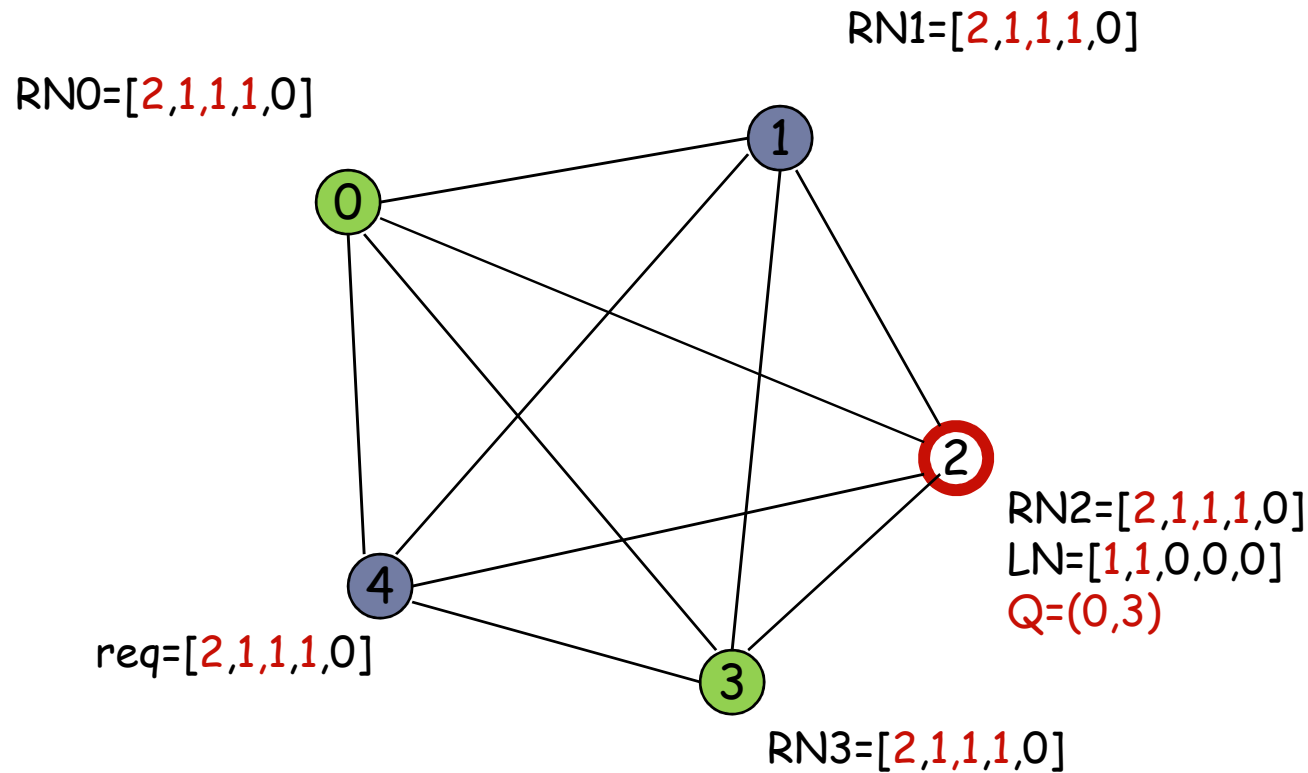
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



0 and 3 send requests



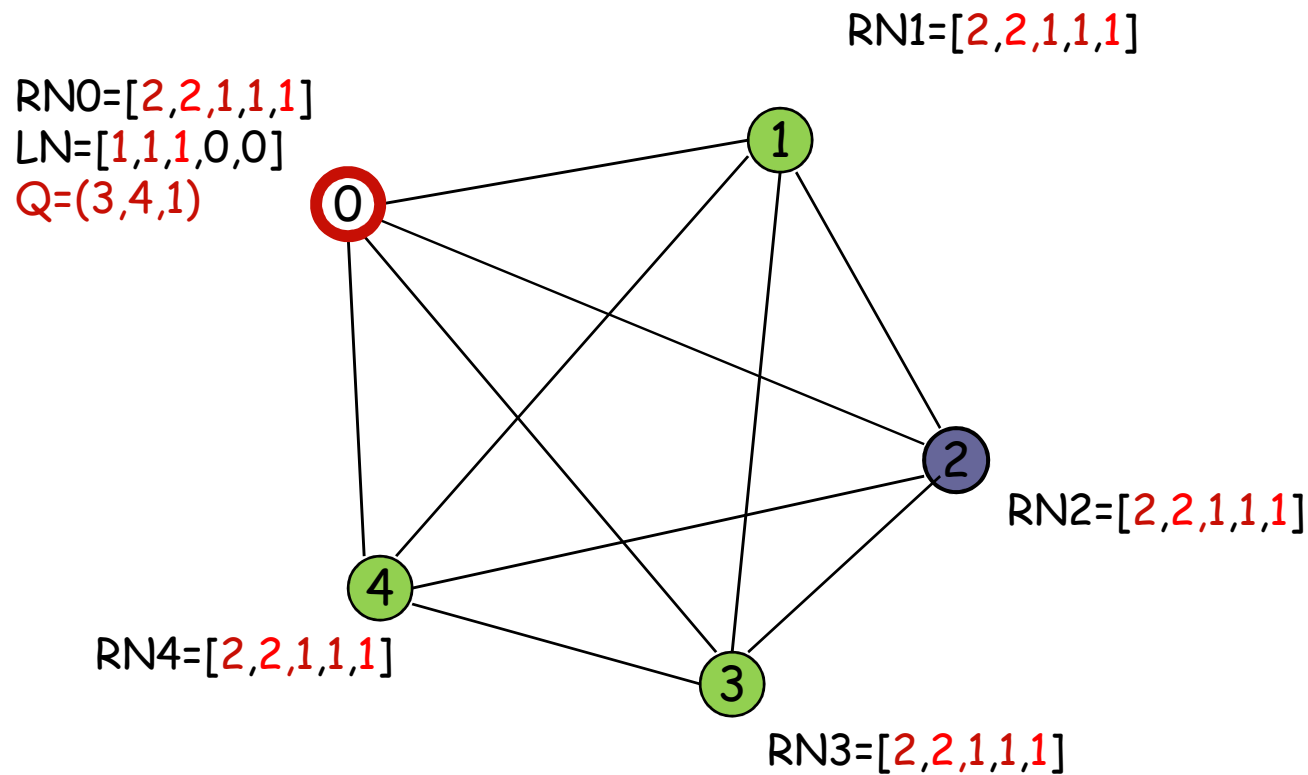
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



1 sends token to 2



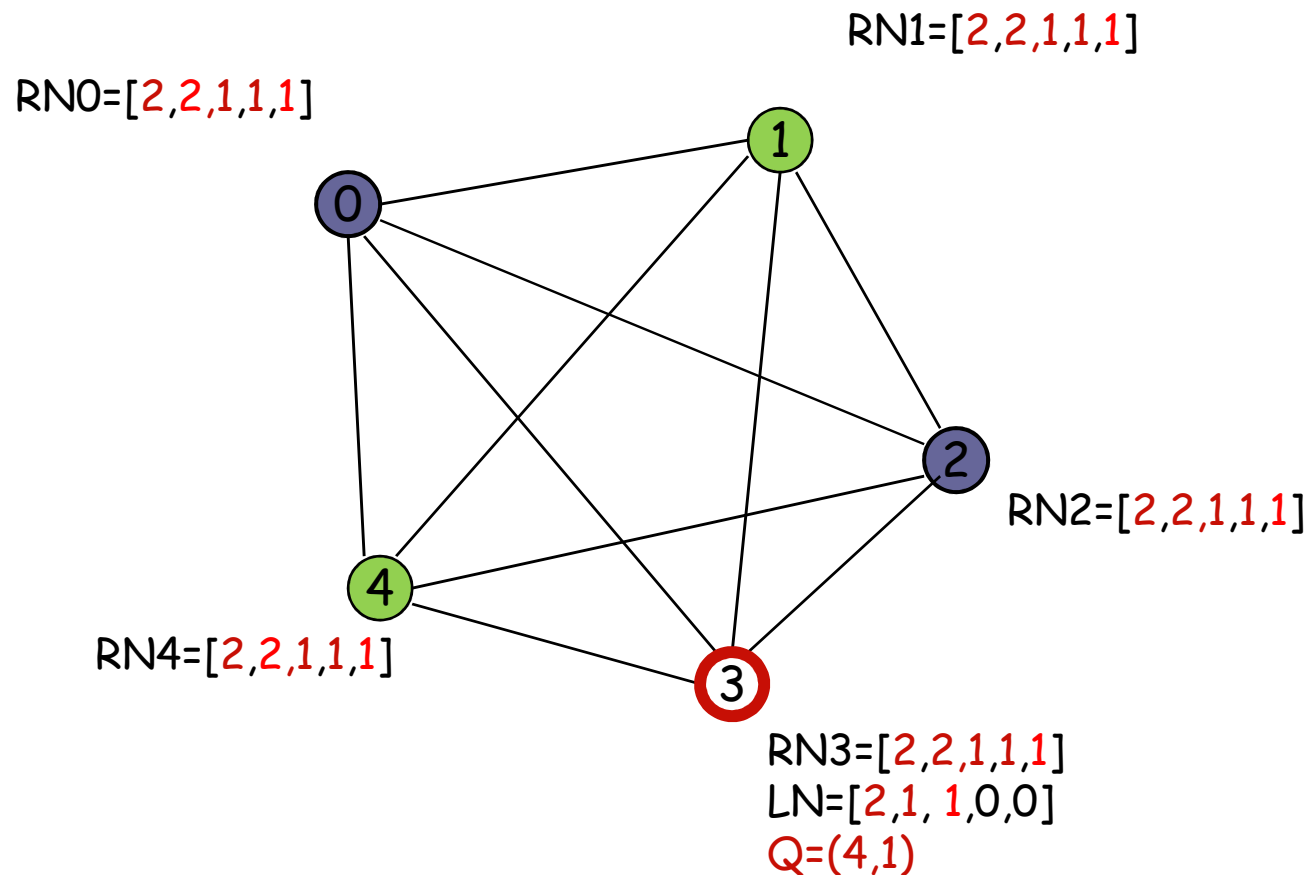
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



**2 prepares to exit & sends token to 0
1 & 4 sends request.**



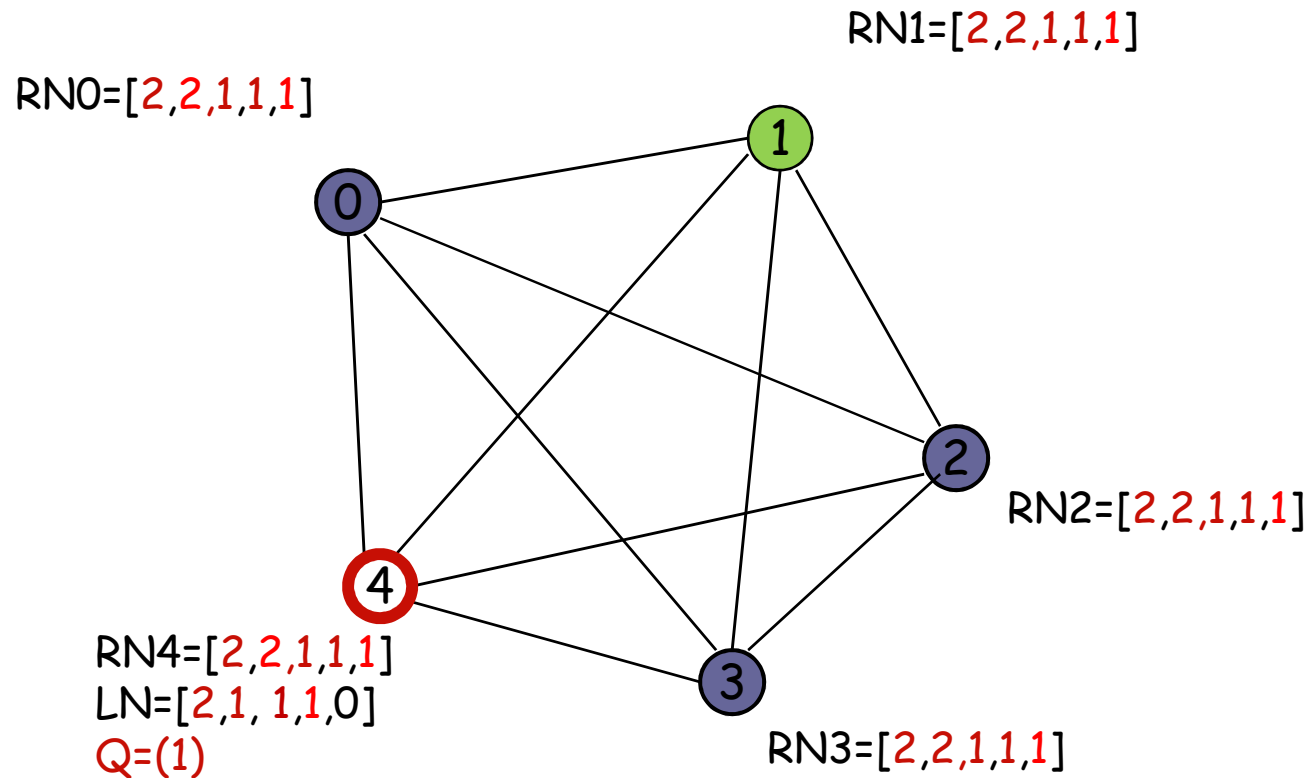
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



0 exits & sends token to 3



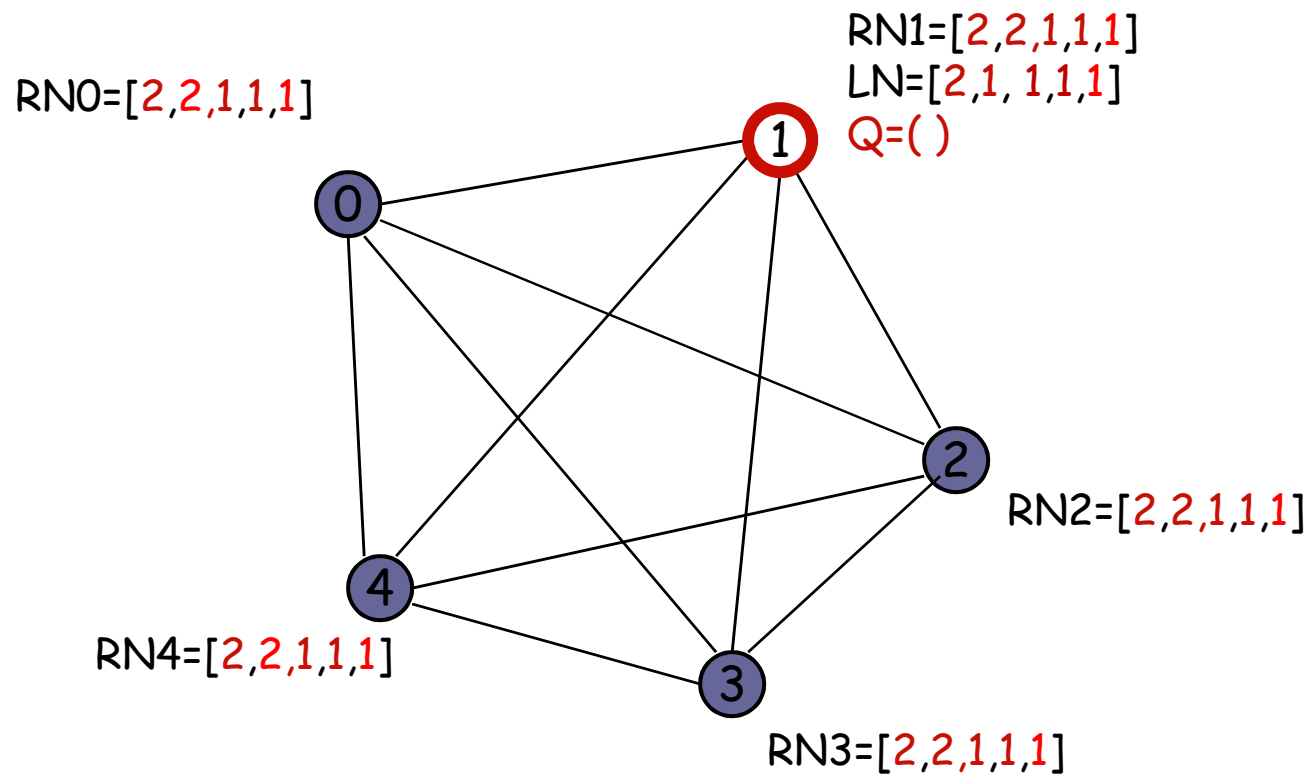
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



3 exits & sends token to 4



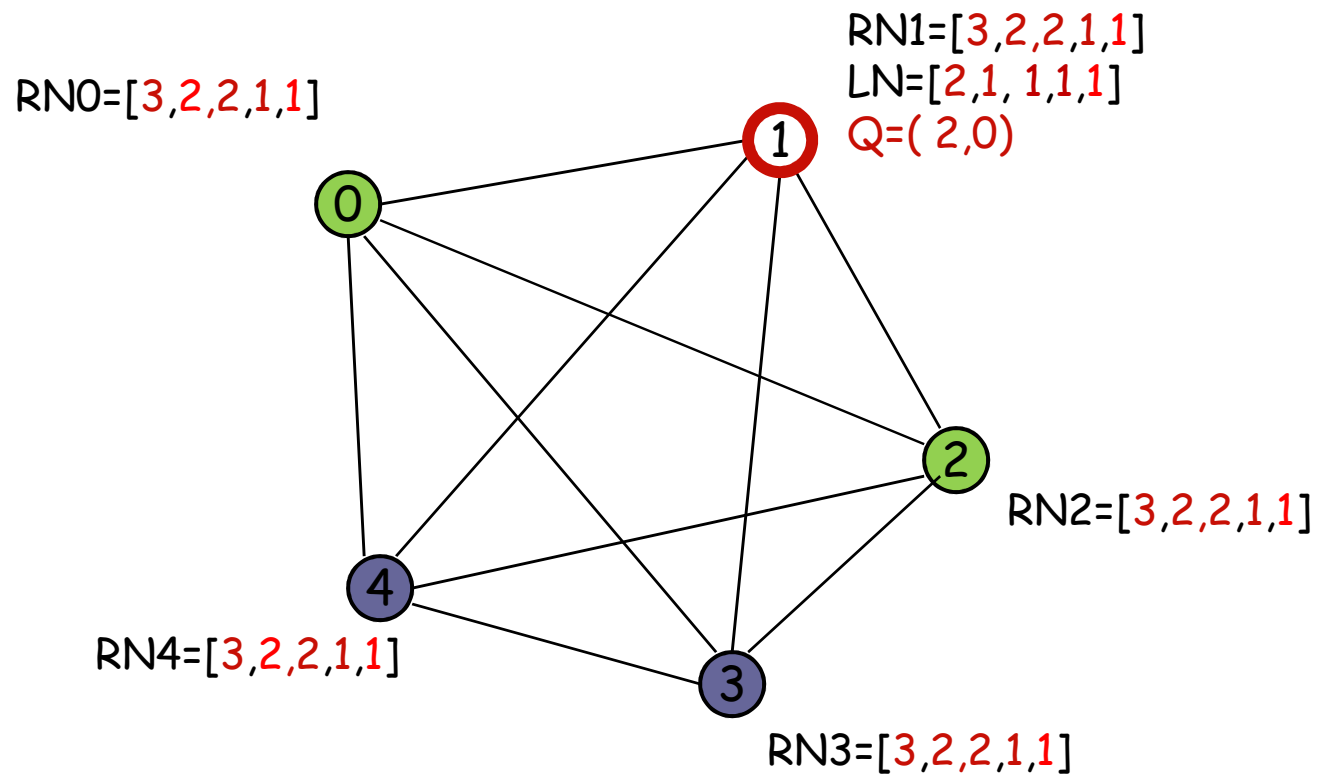
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



4 exits & sends token to 1



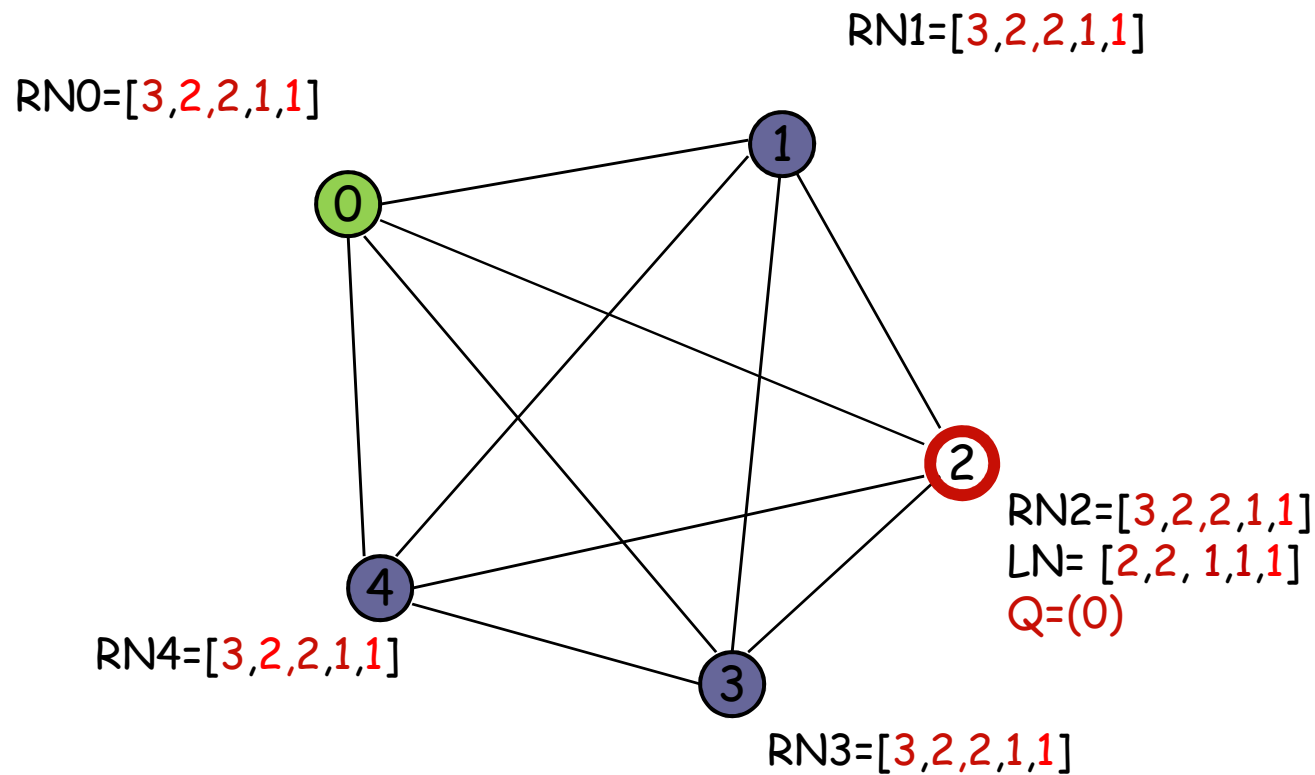
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



2 & 0 request for token



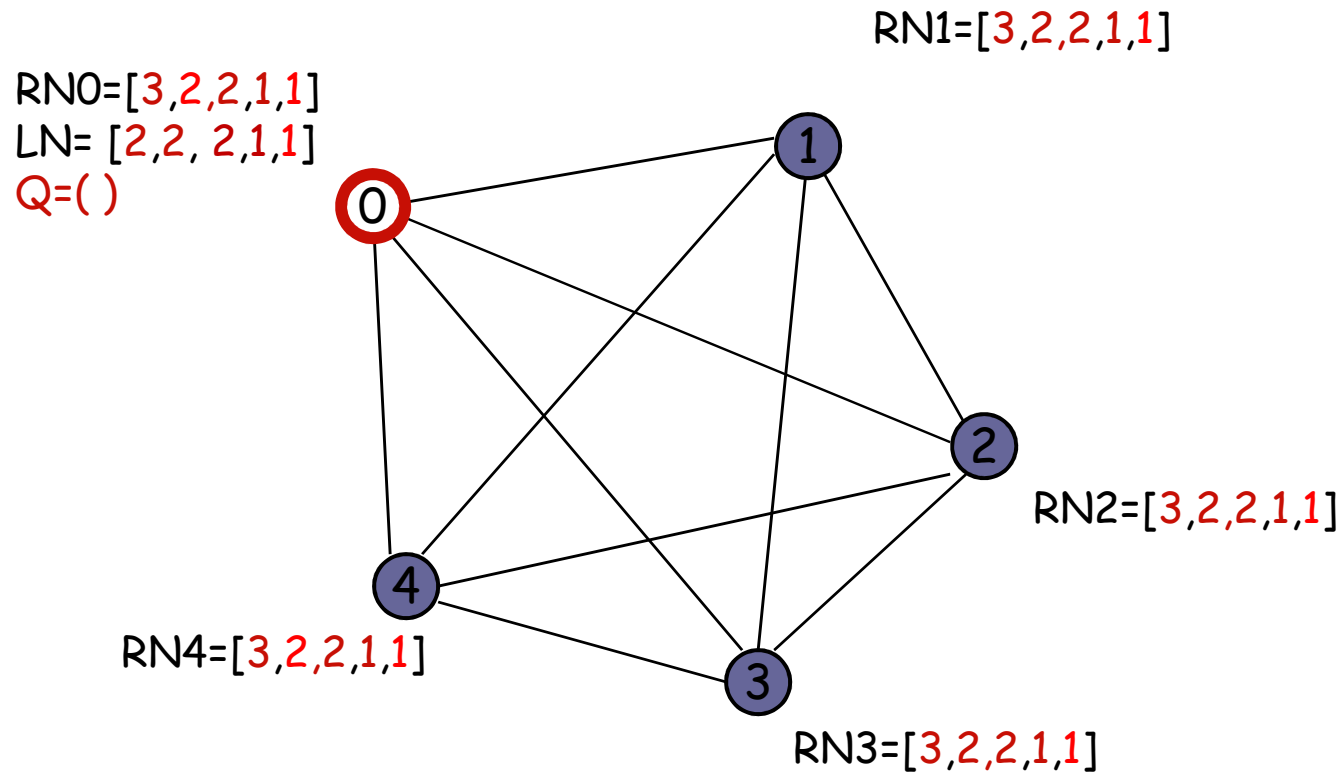
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



Token is given to 2
2 exits from CS and gives token to 0



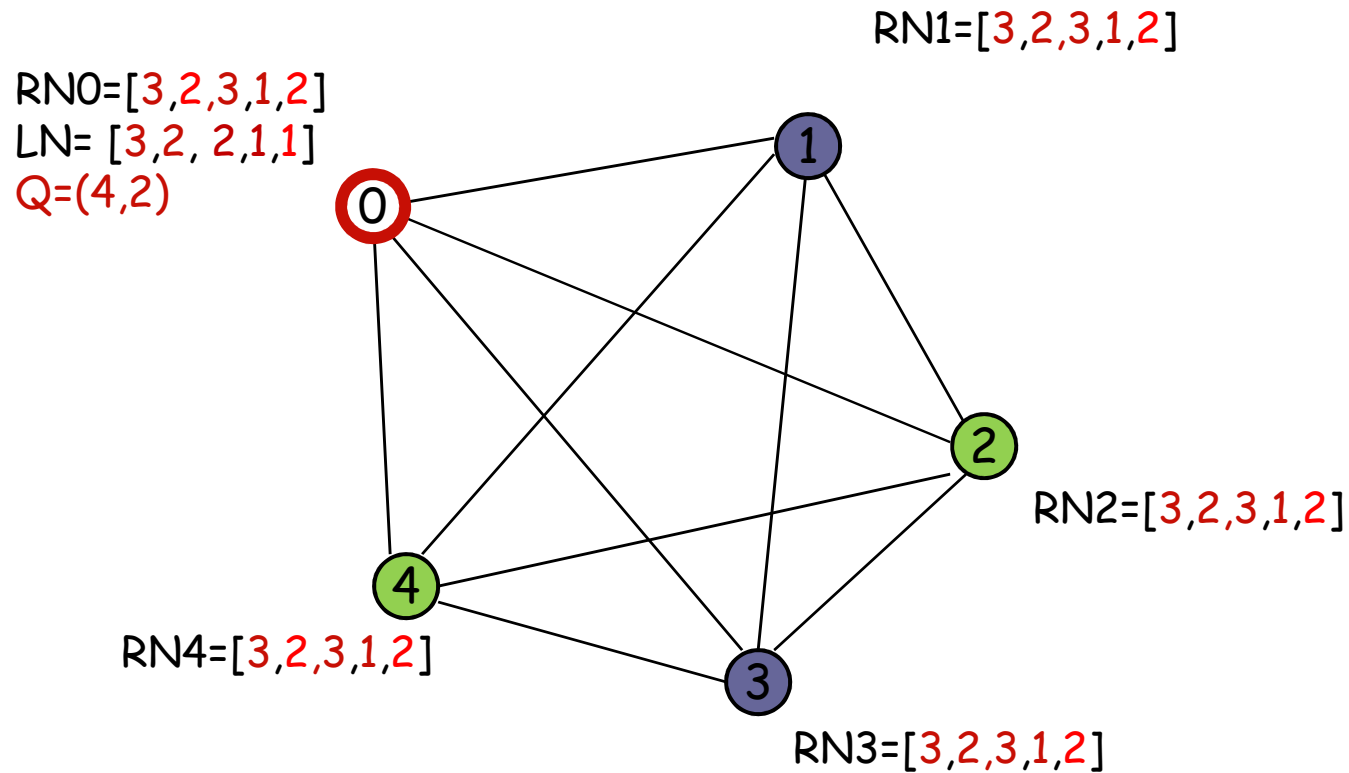
Suzuki Kasami's Distributed Mutual Exclusion Algorithm



0 gets the token, 0 executes in CS
While process 0 exiting from CS, it sets
 $LN[0] = RN0[0]$ i.e. $LN = [3, 2, 2, 1, 1]$



Suzuki Kasami's Distributed Mutual Exclusion Algorithm



4 & 2 are making request for CS



Thank You