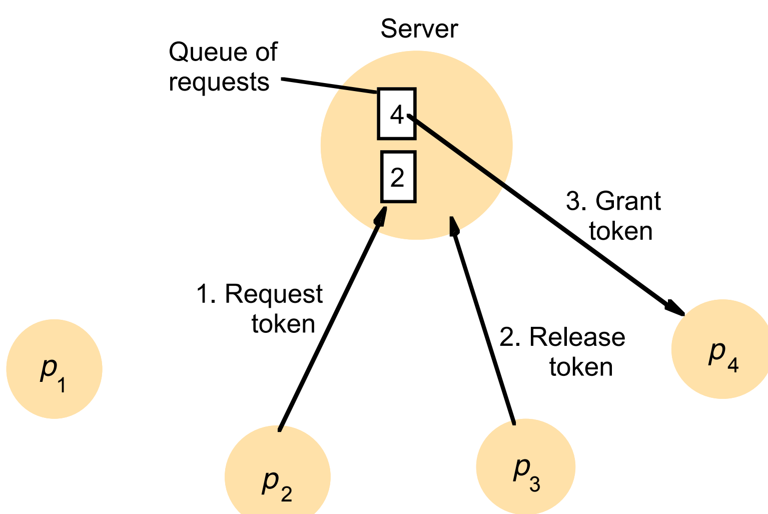
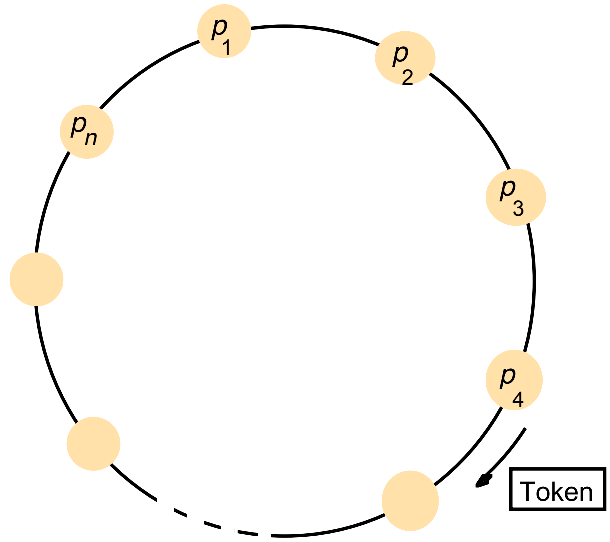
Distributed Coordination

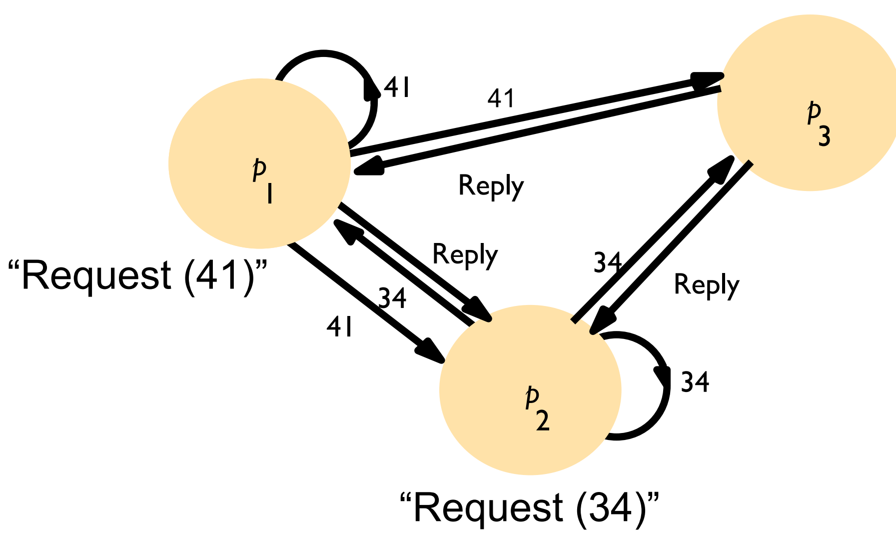
Centralized Mutual Exclusion



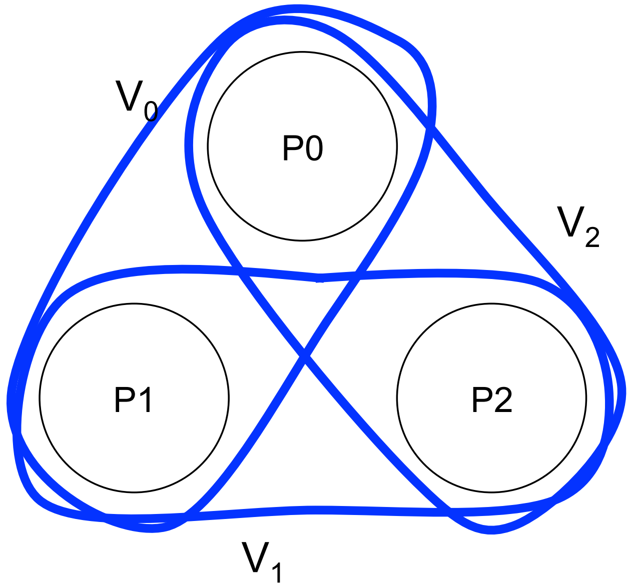
Token Ring Approach



Multicast Approach (Ricart and Agrawala)



Voting Approach (Maekawa's Algorithm)



Voting Set Example

V_0 = {0, 1, 2}

V_1 = {1, 3, 5}

V_2 = {2, 4, 5}

V_3 = {0, 3, 4}

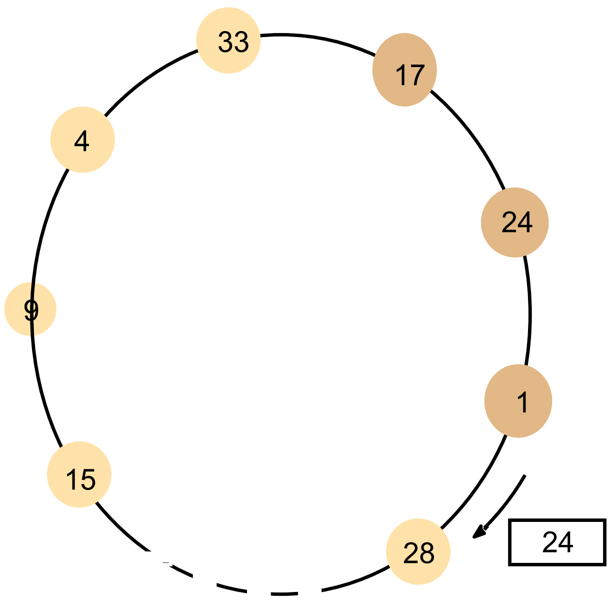
V_4 = {1, 4, 6}

V_5 = {0, 5, 6}

V_6 = {2, 3, 6}

Elections

Ring-Based Election



Bully Algorithm