

Maekawa's Voting Sets

- Each process P_i is associated with a voting set V_i (of processes)
- Each process belongs to its own voting set
- *The intersection of any two voting sets must be non-empty*
 - *Same concept as **Quorums!***
- Each voting set is of size K
- Each process belongs to M other voting sets
- Maekawa showed that $K=M=\sqrt{N}$ works best
- One way of doing this is to put N processes in a \sqrt{N} by \sqrt{N} matrix and for each P_i , its voting set $V_i = \text{row containing } P_i + \text{column containing } P_i$. Size of voting set = $2*\sqrt{N}-1$