

## 1. GOSSIP - STYLE HEARTBEATING:

**STEP-1:** After receiving message from Node-B, Node-A updates it's table as follows:

NODE	HEARTBEAT	TIME OF LAST HEARTBEAT CHANGE
1	10220	55
2	10115→10250	65
3	11028	44
4	10640→10790	65
5	10880→11010	65
6	11000	48

Local time = 65  
 $T_{fail} = 15$   
 $T_{cleanup} = 20$

Marked as failed, and will be removed from the table as this exceeds  $T_{cleanup}$  time.  
(65-44 = 21>15 and 21>20)

Marked as failed, and will not be removed from the table as this does not exceed  $T_{cleanup}$  time.  
(65-48 = 17 >15 and 17 < 20)

**STEP-2:** After failure detection, Node-A's table is updated as follows:

NODE	HEARTBEAT	TIME OF LAST HEARTBEAT CHANGE
1	10220	55
2	10250	65
4	10790	65
5	11010	65
6	11000	48

→ Marked as failed