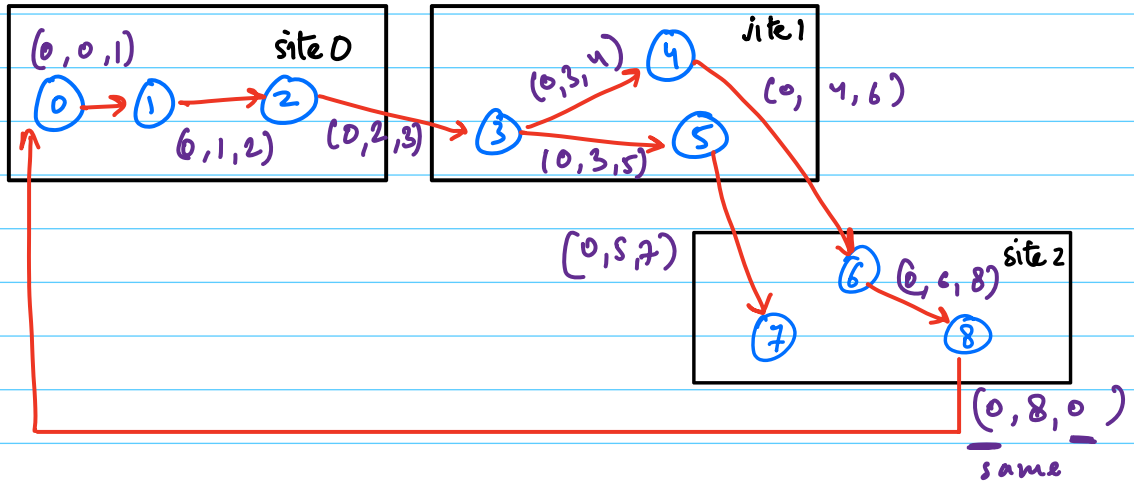
Chandy Misra Hass Deadlock Detection Algorithm



0 is waiting for 1, 1 for 2, 2 for 3 and so on

It is a edge chasing algorithm to detect Deadlocks in DS

PROBE (special message) is used in DS.

If process makes a request for resources which fail or times out the process sends PROBE messages to each of the processes holding one or more of its requested Resources.

PROBE Message (i, j, k)

i = process id that initiated the probe message
j = sender process id
k → receiver process id

eg [0 8 0] → when probe returns to initiator ie 0 8 0 i = k, then a cycle is detected and deadlock is confirmed.

Solution : Have the process who initiated probe message commit suicide

↳ problem: If both 0 & 6 initiate probe message and discover deadlock, they both kill themselves & cause overkill