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Sec-7

(OR) Write the condition of dead lock. Explain the protocol to be used to break the circular wait condition.

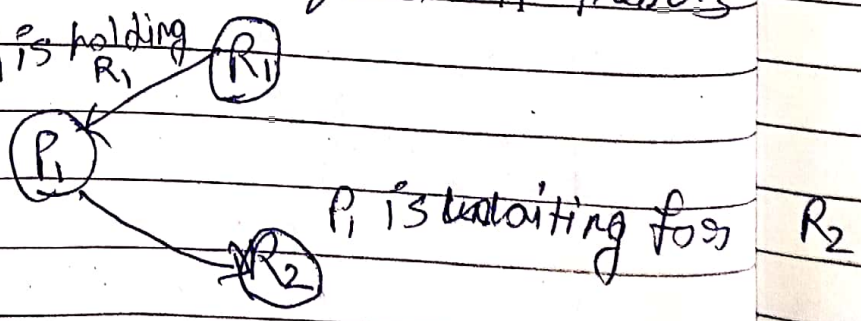
Soln

Four Necessary and sufficient condition for deadlock.

- Mutual exclusion. The resource involved must be unshuredble, otherwise, the process would not be prevented from using resource when nessery.
- Hold & wait or partial allocation.
- No pre-Imption
- Resource waiting or circular wait

Circular wait

one protocol to ensure that the circular wait condition never hold is Impose a linear ordering of all resources types Then each process can only request resure in an increasing order of priority with these priorities. If process P wants to use r_1 & r_3, It should first request r_1 then r_3



Hold & wait