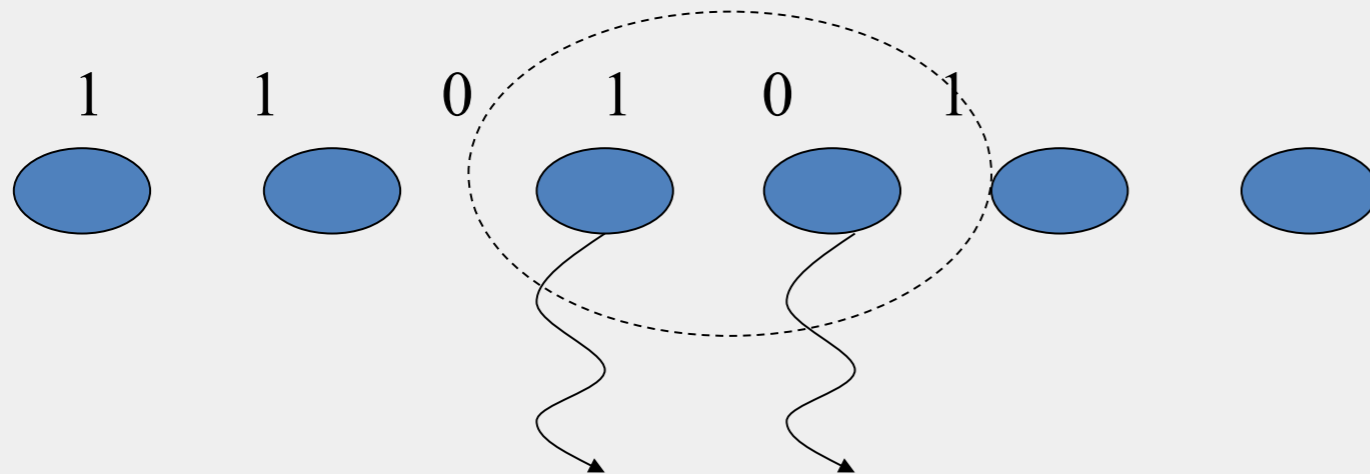


Lemma 2

Some initial configuration is bivalent

- There has to be **some** adjacent pair of 1-valent and 0-valent configs.
- Let the process p , that has a different state across these two configs., be the process that has crashed (i.e., is silent throughout)



Both initial configs. will lead to the same config. for the same sequence of events

Therefore, both these initial configs. are bivalent when there is such a failure