Lemma 2
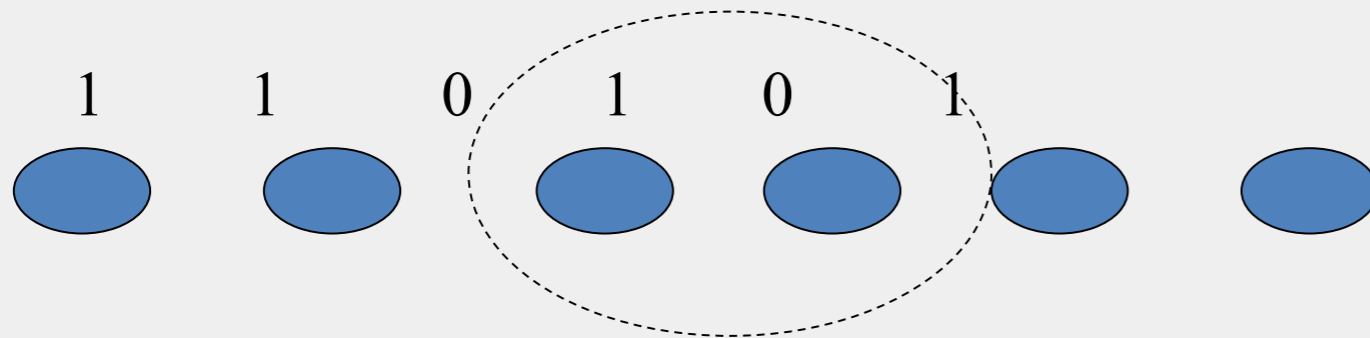
- Suppose all initial configurations were either 0-valent or 1-valent.
- If there are N processes, there are 2^N possible initial configurations
- Place all configurations side-by-side (in a lattice), where adjacent configurations differ in initial xp value for <u>exactly one</u> process.

| 1 | 1 | 0 | 1 | 0 | 1 | |

- There has to be some adjacent pair of 1-valent and 0-valent configs.

26