Race Conditions

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Race conditions occur when the outcome of some code depends on non-deterministic outcomes. Specifically, the code might assume that processes or threads need to execute in a certain order. This means that if the code assumes a specific order of commands, and those commands can somehow get out of order, then undesirable behaviours such as bugs can occur.

Race conditions are especially difficult to manage because they are hard to reproduce. So we should take extra special care to code in such a way that they can’t occur.