



* States 0 and 4 are **absorbing** states
 $P_{00} = 1$ and $P_{44} = 1$

* there is a path from state 2 to state 4
 and never allow me to go back to state 2
 In this case, state 2 is a **transient** state
 $2 \rightarrow 3 \rightarrow 4$

* Here, states 1, 2 and 3 are **transient** states

* States 0 and 4 are **recurrent** states