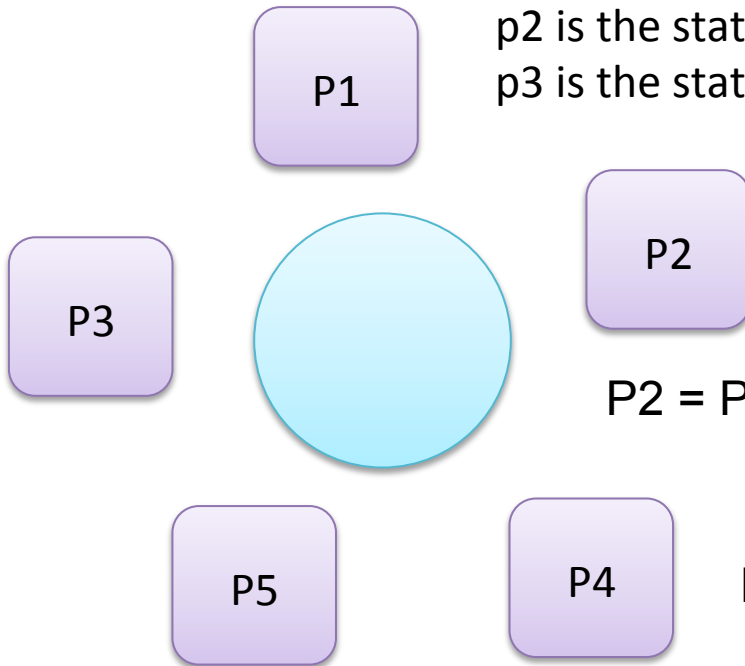P2 = P1 [p1=p2, p2=p3, p3=p1]

P3 = P1 [p1=p3, p2=p1, p3=p2]

Spec of P1:
p1 is the current state,
p2 is the state of the philosopher on the left,
p3 is the state of the philosopher on the right

P1

P2

P3

P2 = P1 [p1=p2, p2=p4, p3=p1]

P5

P4

P4 = P1 [p1=p4, p2=p5, p3=p2]

P5 = P1 [p1=p5, p2=p3, p3=p4]

P3 = P1 [p1=p3, p2=p1, p3=p5]