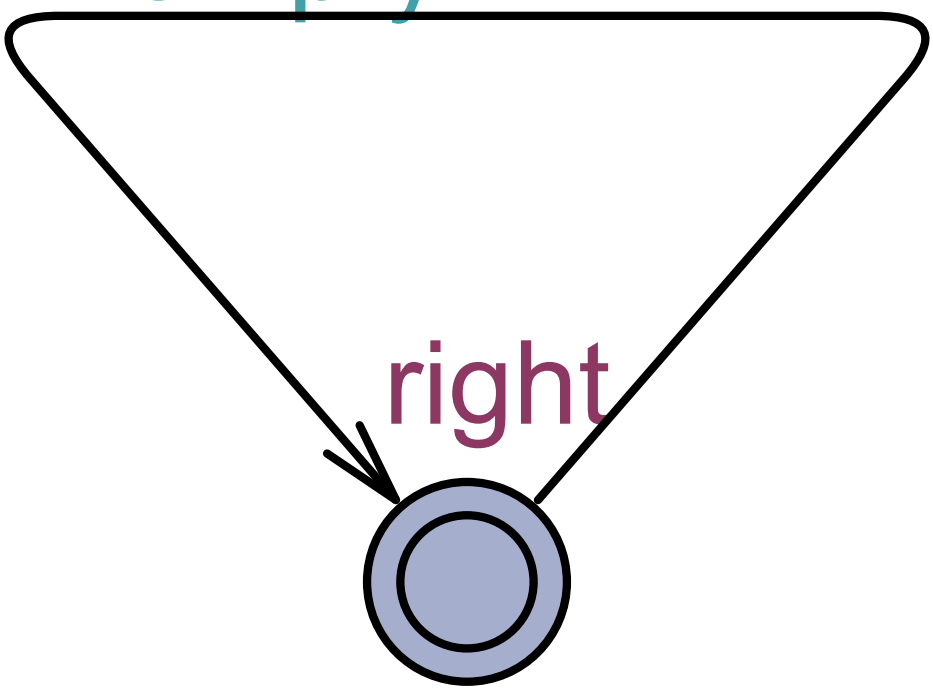
on && a <= 0

on = false, i = 0

empty!



a' == -on*i+k*(b/(1-c)-a/c)

&& b' == -k*(b/(1-c)-a/c)+

(insolation * rechargeRate)