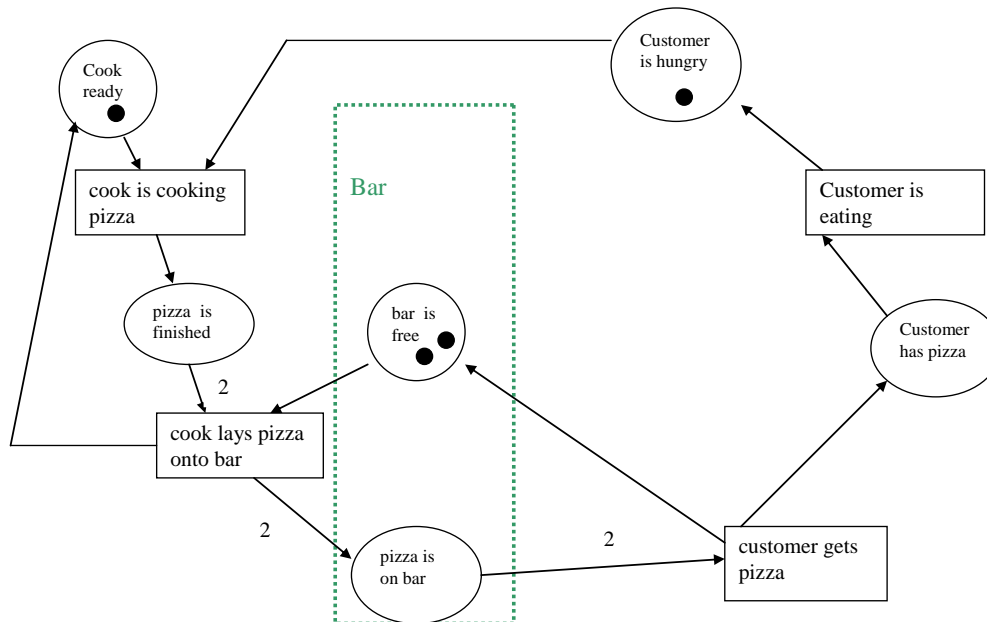


Update: n Cooks waiting for order; bar has capacity of 2 pizzas Model (Petri Net)



Hints for Implementation

- „Customer is hungry“ set with semaphores, so that the cook can start cooking

outcome eg.:

```
***** start of simulation *****
cook Adam : is waiting for next order
cook Eva : is waiting for next order
customer Ameise: is hungry und creates order
cook Moses : is waiting for next order
customer Bmeise: is hungry und creates order
customer Ameise: created Order [customer=Ameise-1-, pizza= not in work yet] and is
waiting
customer Bmeise: created Order [customer=Bmeise-2-, pizza= not in work yet] and is
waiting
cook Adam : got order Order [customer=Bmeise-2-, pizza= not in work yet]
cook Eva : got order Order [customer=Ameise-1-, pizza= not in work yet]
cook Eva : starts creating pizza from cook Eva -2-
cook Adam : starts creating pizza from cook Adam -2-
cook Eva : finished pizza from cook Eva -2-
cook Eva : starts waiting for free bar
cook Eva : laying on bar pizza from cook Eva -2-
cook Eva : is waiting for next order
customer Ameise: got pizza from order Order [customer=Ameise-1-, pizza=pizza frm
cook Eva -2-]
customer Ameise: starts eating pizza from cook Eva -2-
cook Adam : finished pizza from cook Adam -2-
cook Adam : starts waiting for free bar
cook Adam : laying on bar pizza from cook Adam -2-
```

```
cook Adam : is waiting for next order
customer Bmeise: got pizza from order Order [customer=Bmeise-2-, pizza=piza frm
cook Adam -2-]
customer Bmeise: starts eating pizza from cook Adam -2-
customer Bmeise: finished eating pizza from cook Adam -2-
customer Bmeise: is hungry und creates order
customer Bmeise: created Order [customer=Bmeise-3-, pizza= not in work yet] and is
waiting
cook Moses : got order Order [customer=Bmeise-3-, pizza= not in work yet]
cook Moses : starts creating pizza from cook Moses -3-
cook Moses : finished pizza from cook Moses -3-
cook Moses : starts waiting for free bar
cook Moses : laying on bar pizza from cook Moses -3-
cook Moses : is waiting for next order
customer Bmeise: got pizza from order Order [customer=Bmeise-3-, piza=piza frm
cook Moses -3-]
customer Bmeise: starts eating pizza from cook Moses -3-
customer Ameise: finished eating pizza from cook Eva -2-
customer Ameise: is hungry und creates order
customer Ameise: created Order [customer=Ameise-4-, pizza= not in work yet] and is
waiting
cook Eva : got order Order [customer=Ameise-4-, pizza= not in work yet]
cook Eva : starts creating pizza from cook Eva -4-
cook Eva : finished pizza from cook Eva -4-
cook Eva : starts waiting for free bar
cook Eva : laying on bar pizza from cook Eva -4-
cook Eva : is waiting for next order
customer Ameise: got pizza from order Order [customer=Ameise-4-, piza=piza from
cook Eva -4-]
customer Ameise: starts eating pizza from cook Eva -4-
customer Bmeise: finished eating pizza from cook Moses -3-
customer Bmeise: is hungry und creates order
customer Bmeise: created Order [customer=Bmeise-5-, pizza= not in work yet] and is
waiting
cook Adam : got order Order [customer=Bmeise-5-, pizza= not in work yet]
cook Adam : starts creating pizza from cook Adam -5-
customer Ameise: finished eating pizza from cook Eva -4-
customer Ameise: is hungry und creates order
customer Ameise: created Order [customer=Ameise-6-, pizza= not in work yet] and is
waiting
cook Moses : got order Order [customer=Ameise-6-, pizza= not in work yet]
cook Moses : starts creating pizza from cook Moses -6-
cook Moses : finished pizza from cook Moses -6-
cook Moses : starts waiting for free bar
cook Moses : laying on bar pizza from cook Moses -6-
cook Moses : is waiting for next order
...
```