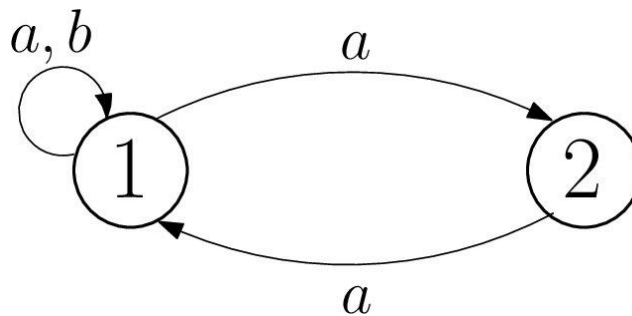


## MODEL IMPLEMENTATION IN MATLAB



### RENAMING OF THE STATES

STATE	IN MATLAB
1	1
2	2

### RENAMING OF THE EVENTS

EVENT	IN MATLAB
a	1
b	2

## TRANSITION PROBABILITIES

PROBABILITY	IN MATLAB
$p(1   1, a) = 1/4$	<code>model.p(1,1,1) = 1/4</code>
$p(2   1, a) = 3/4$	<code>model.p(2,1,1) = 3/4</code>
$p(1   1, b) = 1$	<code>model.p(1,1,2) = 1</code>
$p(2   1, b) = 0$	<code>model.p(2,1,2) = 0</code>
$p(1   2, a) = 1$	<code>model.p(1,2,1) = 1</code>
$p(2   2, a) = 0$  'b' is not possible in '2'	<code>model.p(2,2,1) = 0</code>
	<code>model.p(1,2,2) = NaN</code>
	<code>model.p(2,2,2) = NaN</code>

## PROBABILITIES OF THE INITIAL STATE

PROBABILITY	IN MATLAB
$p_{x_0}(1) = 2/3$	<code>model.p0(1) = 2/3</code>
$p_{x_0}(2) = 1/3$	<code>model.p0(2) = 1/3</code>