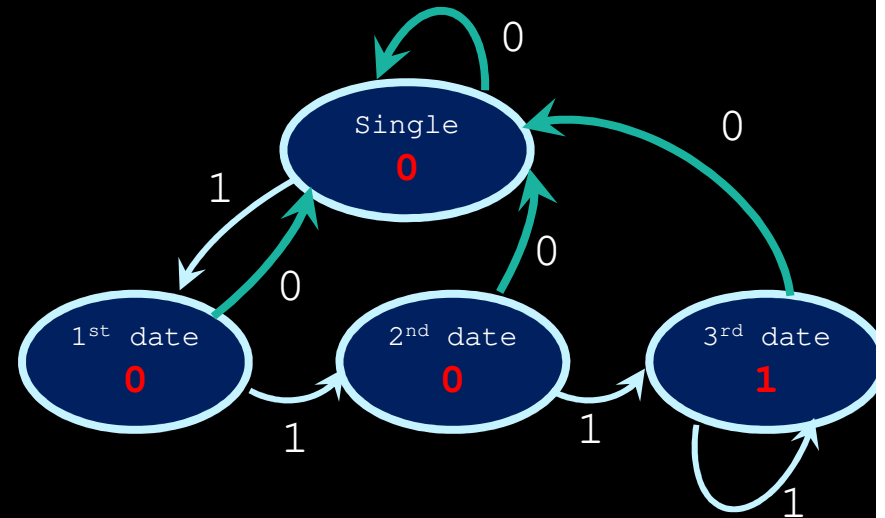


# Design Example

Current State	Next State		Output
	Input=0	Input=1	
Single	Single	1 <sup>st</sup> date	0
1 <sup>st</sup> date	Single	2 <sup>nd</sup> date	0
2 <sup>nd</sup> date	Single	3 <sup>rd</sup> date	0
3 <sup>rd</sup> date	Single	3 <sup>rd</sup> date	1

State label	State value
Single	00
1 <sup>st</sup> date	01
2 <sup>nd</sup> date	10
3 <sup>rd</sup> date	11

$Q_2$	$Q_1$	I	$Q_2^*$	$Q_1^*$
0	0	0	0	0
0	0	1	0	1
0	1	0	0	0
0	1	1	1	0
1	0	0	0	0
1	0	1	1	1
1	1	0	0	0
1	1	1	1	1



$$Q_2^* = Q_2 I + Q_1 I$$

$$Q_1^* = Q_2 I + \overline{Q_1} I$$

