## 010 Detector

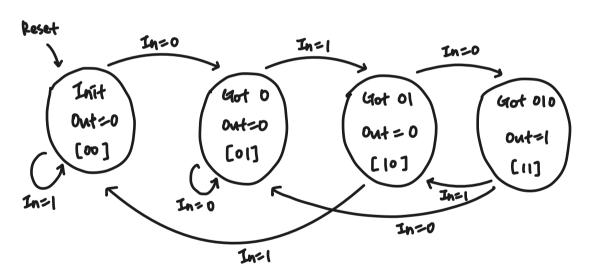
- 3 1/0 ports
- · 1 bit input 2n
- · 1 bilt input Reset
- · 1 614 output out

## Pattern Detector

Current	Next State		1
State	In=0	In=1	Out
Init	Got 0	Init	0
Got 0	Got 0	Got 01	0
<b>Got 01</b>	<b>अ</b> र्ज ०१०	Int	0
Got 010	Upt 0	Got 01	(

Pattern Detector (binary)

	(4,40) Current	(4,' Next		
_	State	In=0	In = 1	Output
	00	01	00	0
_	0 \	0 (	lo	0
_	lo	11	00	١
	11	0/	(0	0



Truth Table for next states						
-) hext state combinational logic						
41	40	In	4,'	<b>4</b> ₀′		
0	0	0	0	ı		
0	0	1	0	0		
0	ι	0	0	1		
0	l	l	1	0		
ı	0	0	l	1		
l	0	(	0	0		
l	l	0	0	1		
1	l	ı	1	0		
				•		
Truth table for next states						
-) output combinational logic						

4,	40	output
0	0	0
0	l	0
l	0	0
1	1	1