Name: Mulia Widjaja

## Homework #7

_	N. Committee		-11	
2,000	Present	Next	State	output
	State	W=0	W=1	
	y2 y1	Y2 Y1	Y2 Y1	Z
Λ	000	10		30
B	01	01	00	0
C	10		00	0
0	11	10	0	
V		110		The state of the s

## State Table:

	1 .		and the same		-
I	Present	Next	State	OHRH	The Party of the P
1	Present State	- W=0	W=1	0 4 4 4	-
1	y2 y1	Y2 Y1	1/2 Y1	7	-
	A	Ç	0	0	
	R	. B	A	0	
_	(	D	A	0	
	0	C	В	1	1
	V				-

## One-hot encoding: State-Assigned Table (New):

	Present	Next	State	OHOH	
	State	M=O	W=1	Outpoic	
	44 43 42 4,	4443 82 Y1	944342 YI	そ	
A	0001	0100	1000	0	
B	00 0	00 10	0001	0	
6	0100	1000	000	0	
0	1000	0100	00 0		
V					

(Cost)

Synthesize a growit (using truth table):

W 42 41	1 Y2 Y1
000	0
00/	0 (
010	- 3
011	0 - 4 D
100	
0 (	90
110	00
(()	0 (
the same of the sa	

Y2: WY2

91 00 01 11 10 0 I 0 I

Y1: W42

1195			•	
y,	. 00	01	11	10
0	0		0	0
1	(1)	0	1	0

1/2 = W /2 + 41 /2 = W /2 + 41+1/2

Y1 = W 72 Y1 + W 42 Y1 + W 42 Y1 + W 72 Y1

= W & 42 & 41

