PSD -C

TUGAS MANDIRI 6

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1) 2 dimensi

	rent ate			ext ate		Out	put
		χ:			·=1	X=0	X=1
A(+)	B(+)	A(++1)	B(++1)	A(HI)	B(++1)	Y	Y
0	0	0	(	١,	0	0	1
0	. 1	1	١	0	0	0	1
ı	0	0	1	0	0	0	١
}	(	0	١	١	1	0	0

## 1 dimensi

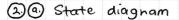
	rent ate	Input		xt ate	atput
-	B(+)	×		B(++1)	Υ
0	0	O	0	1	0
0	0	. 1	١,	0	1
0	. 1	0	١ ١	1	0
0	1	۰۱	0.	0	ı
	0	0	0	1	0
1	0	1	0	0	1
1	١.	0	0	1	0
1	1	1	1	1	0

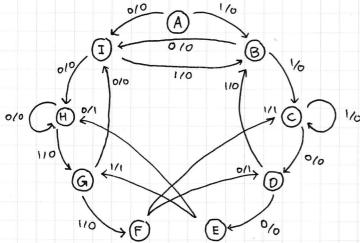
KOKUYO LOOSE-LEAF J-807S-5

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ASUMS1:

Output hanya kelvar Setelah clock cycle Selonjuthya (Aext storte)

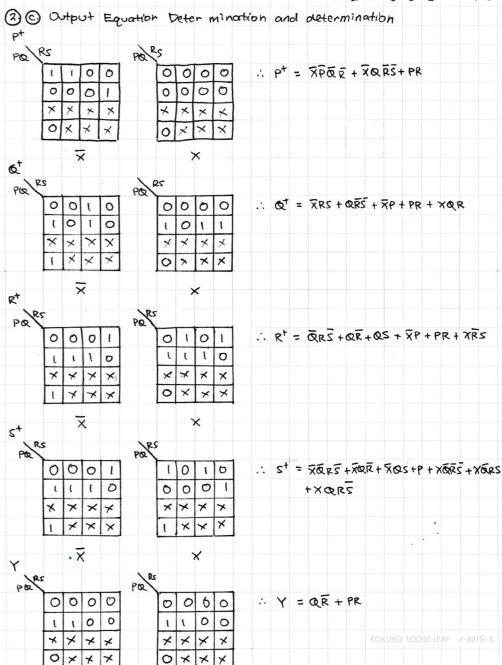
## (b) State table (Binary State Assignment)

	Cui	rre	nt				1	lex	+	St	orte	2			00+	put
	. 51	tat	e			×	=	O			×	=	1		X=0	X= (
11/1	P	Q	K	S		P+	Q <sup>t</sup>	Rt	St		Pt	Qt	Rt	St	Y	Y
A	0	0	0	0	I	١	0	0	Ö	B	0	0	O	1	0	0
B	0	0	0	١	I	1	0	0	Ò	C	0	0	l	0	0	0
C	0	0	ţ	O	D.	0	0	1	1	C	0	0	1	0	0	0
0	0	0	1	1	E	0	t	0	0	В	O	0	0	1	0	0
E	0	١	0	0	H	0	١	1	1	G	0	1	l	0	ı	١
F	0	1	0	1	D	0	0	1	1	C	0	0	١	0	ı	ı
G	0	1	1	0	I	1	0	0	0	F	0	Ī	0	1	0	. 0
н	0	1	1	١	Н	0	l	1	1	G	0	1	١	0	0	0
I	1	0	0	0	н	0	ı	1	J	B	0	0	0	1	0	0

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2 2 0 6 0 2 8 9 3

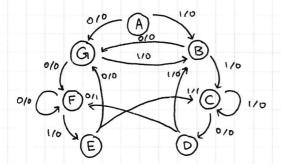


furl

ALDEN LUTHF!

2 2 0 6 0 2 8 9 3 2

## 2 @ State Diagram (version 2)



ASUMSI:

Output kelvan saat clock cycle saat ini

(current state)

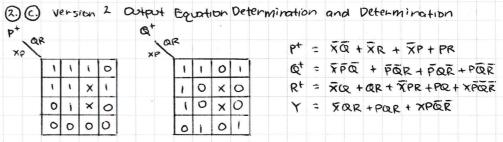
## E State table (vension 2, Binary State Assignment)

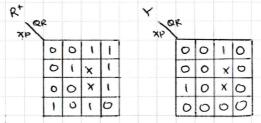
C	uvr	ent	-			Ne	ext	51	at	e		art	put
(	2+0	te			X	=0			Χ=	= 1		x=0	x=1
///	P	Q	R		P+	Qt	Rt		P+	Qt	Rt	Υ	Y
A	0	0	0	G	١	1	0	B	0	0	1	0	0
В	0	0	ŧ	G	Ţ	1	0	С	0	1	0	0	0
С	0	)	O	D	٥	1	1	C	0	١	0	0	0
D	0	1	1	F	١	0	١	B	0	0	1	1	0
Ε	1	0	0	G	١	1	0	C	0	(	0	0	1
F	l	0	١	F	١	0	1	E	١	0	0	0	0
67	ı	Ĭ	O	F	1	0	١	В	0	0	1	0	0

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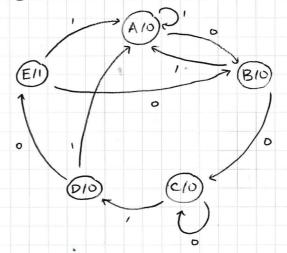
ALDEN LUTHF

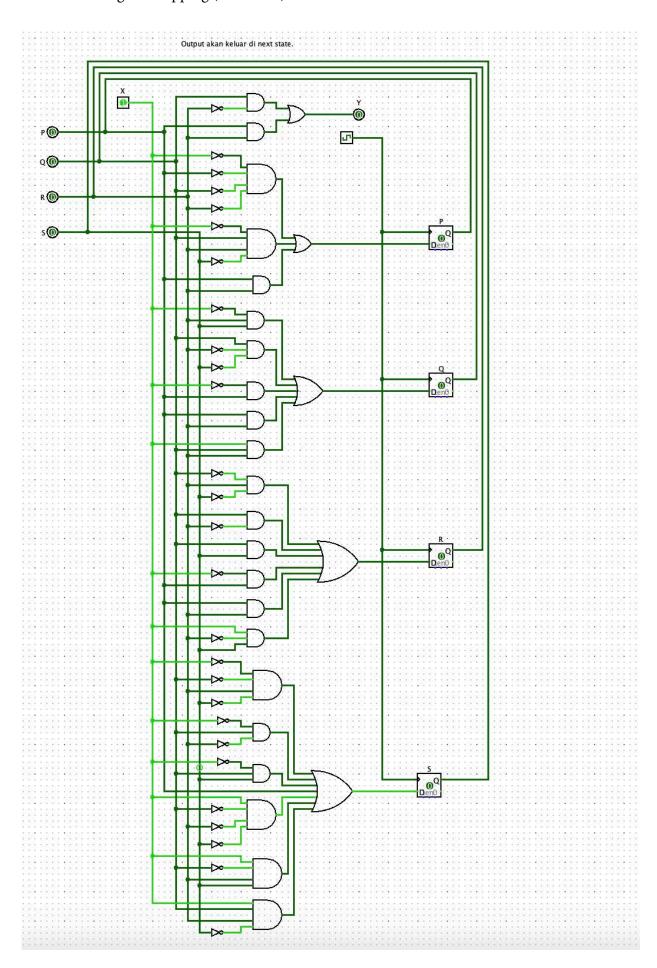
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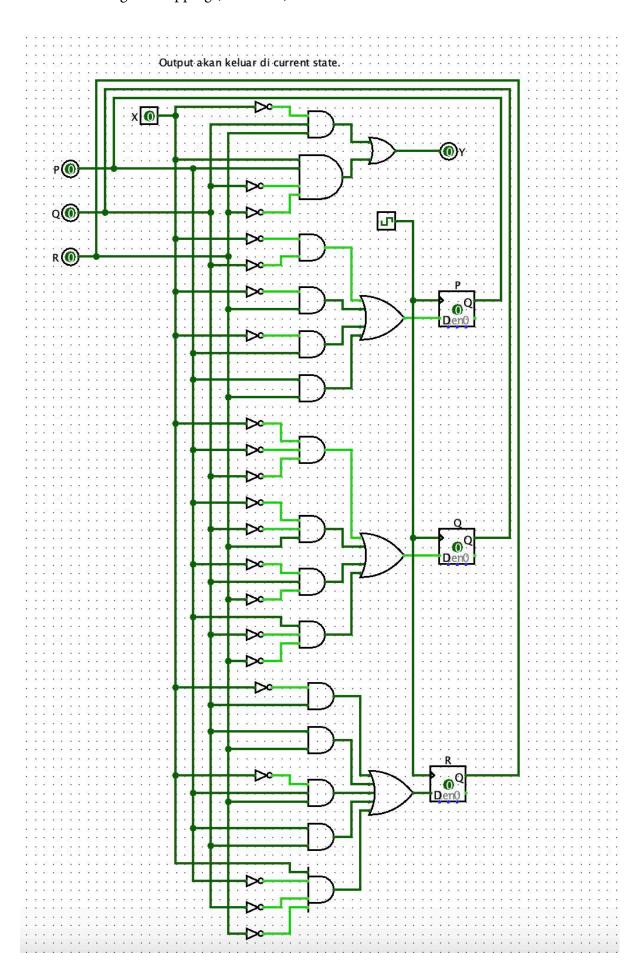




30 State diagram (0010 recognizer)







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2 2 0 6 0 2 8 9 3 2

(36) state table (Binary State assignment)

-	المال	ren	+		\	<b>م</b> ر	<b>x</b> +	S-	tat	e		arport
	540	ate			×	-0			×	= 1		~
	P	Q	R		P+	Qt	RT	11/1	Pt	Qt	Rt	I
A	0	0	0	В	0	O	i	A	0	0	0	0
В	0	0	١	c	0	ì	O	Α	0	0	0	0
С	0	1	0	C	0	١	0	1>	0	1	1	0
D	0	1	1	E	t	0	0	Α	0	0	0	0
E	ι	0	0	В	0	0	١	A	0	0	0	1

@ flip-flop input determination and output equotion, determination

Present State	Input	Next State	Output .		f		- fle		
PQR	×	pt Qt Rt	Y	JA	KA				Kc
000	0	001	^ O	0	X	0	×	1	X
000	- 1	000	.0	0	×	Ò	×	0	χ
001	0	010	0	0	X	1	X	×	1
001	1	000	0	0	×	0	X	X	(
010	0	010	0	0	X	×	0	0	×
010	1	011	0	0	X	×	D	1	×
011	.0	100	0	1	X	X	1	X	1
011	1	000	0	0	×	X	1	X	1
100	0	001	t	X	1	0	×	C	X
100	1	000	1	X	ł	0	X	0	X

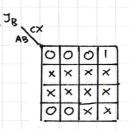
A s P

C = R

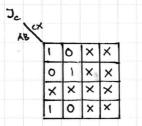
3	<b>©</b>	Optimization	

JA BA	с×				KA
AR.	0	0	0	0	AB
	0	D	0		
	×	X	X	×	
	×	X	×	X	

AR	X			
	×	×	×	X
	X	X	X	×
	X	×	<b>'</b> ×	×
	1	1	×	×



×	×	lx	l×
0	Ó	1	1
×	×	×	×
X	×	×	×



X	×	1	1
×	×	τ	τ
×	×	×	×
×	×	×	×

A	BC			
	0	0	0	0
	T	×	×	×

$J_A$	=	QRX
KA	Ξ	1
JB	=	RX
KB	=	R
7	_	AV + 10

$$J_c = \overline{QX} + \overline{QX}$$

$$K_c = 1$$

