

Παρούσα κατάσταση	Επόμενη κατάσταση, έξοδος Είσοδος = 0	Επόμενη κατάσταση, έξοδος Είσοδος = 1
A	K,1	B,1
B	C,0	D,1
C	D,0	O,1
D	G,1	A,0
E	J,1	A,0
F	M,0	K,1
G	G,1	L,0
H	H,1	F,0
I	I,1	N,0
J	J,1	C,0
K	L,0	M,1
L	D,0	K,1
M	I,1	A,0
N	E,0	B,1
O	F,0	E,1

B 0,1

C 0,1

F 0,1

K 0,1

L 0,1

N 0,1

O 0,1

D 1,0

E 1,0

G 1,0

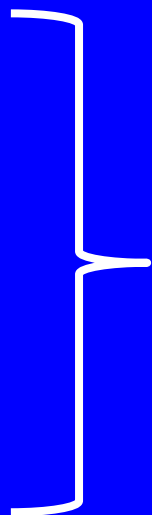
H 1,0

I 1,0

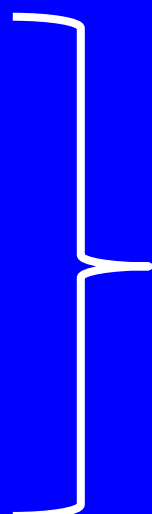
J 1,0

M 1,0

A 1,1



ΠΡΩΤΗ ΟΜΑΔΑ



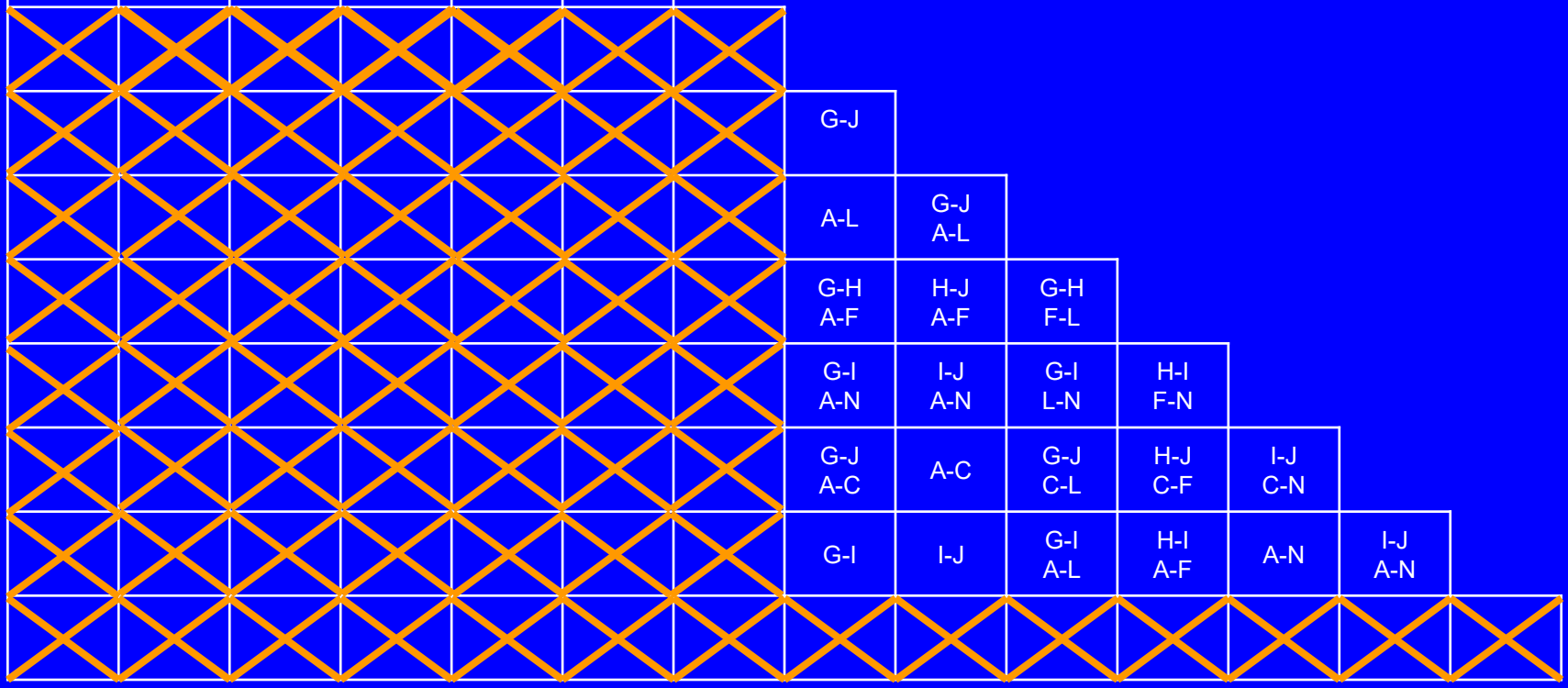
ΔΕΥΤΕΡΗ ΟΜΑΔΑ

ΤΡΙΤΗ ΟΜΑΔΑ

C
F
K
L
N
O
D
E
G
H
I
J
M
A

C-D D-O						
C-M D-K	D-M K-O					
C-L D-M	D-L M-O	L-M K-M				
C-D D-K	K-O	D-M	D-L K-M			
C-E B-D	D-E B-O	E-M B-K	E-L B-M	D-E B-K		
C-F D-E	D-F E-O	F-M E-K	F-L E-M	D-F E-K	E-F B-E	

Παρούσα κατάσταση	Επόμενη κατάσταση, έξοδος Είσοδος = 0	Επόμενη κατάσταση, έξοδος Είσοδος = 1
A	K,1	B,1
B	C,0	D,1
C	D,0	O,1
D	G,1	A,0
E	J,1	A,0
F	M,0	K,1
G	G,1	L,0
H	H,1	F,0
I	I,1	N,0
J	J,1	C,0
K	L,0	M,1
L	D,0	K,1
M	I,1	A,0
N	E,0	B,1
O	F,0	E,1

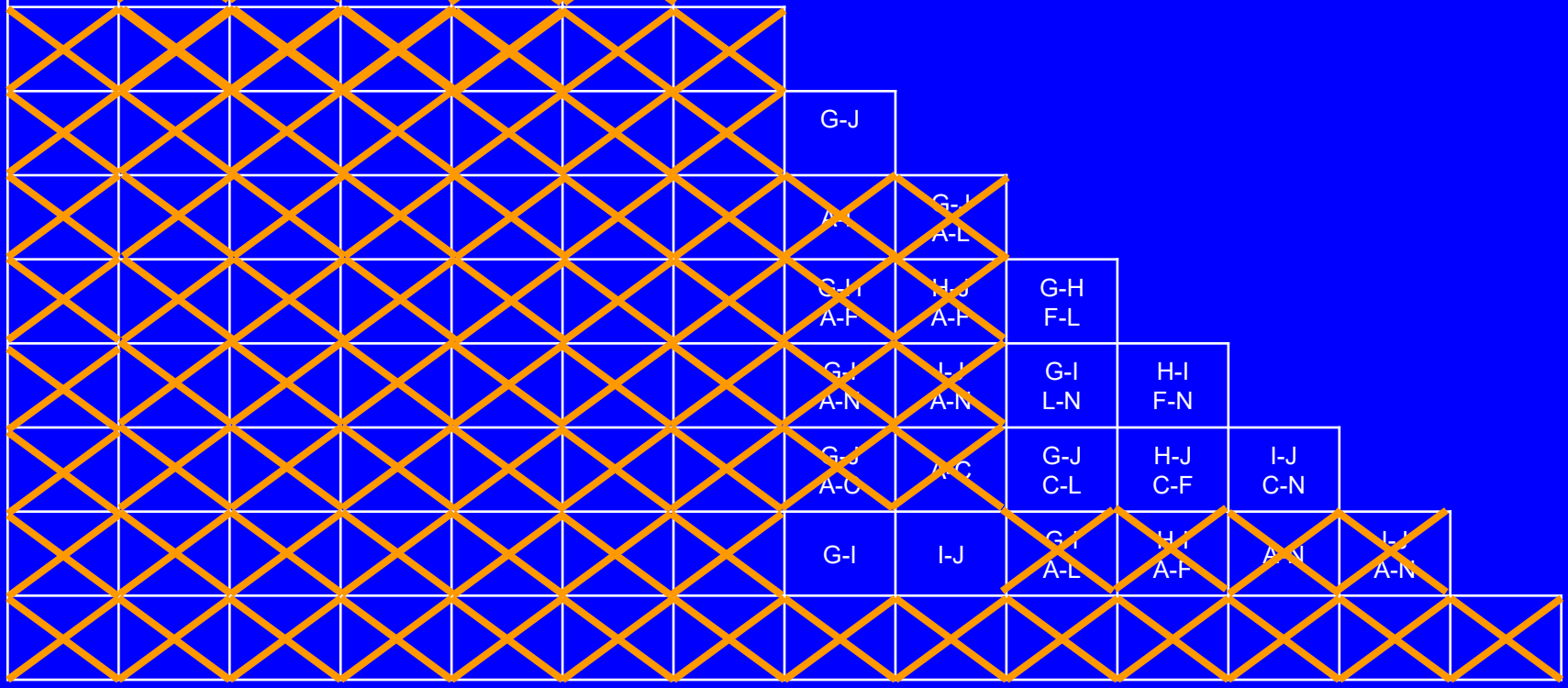


B C F K L N O D E G H I J M

C
F
K
L
N
O
D
E
G
H
I
J
M
A

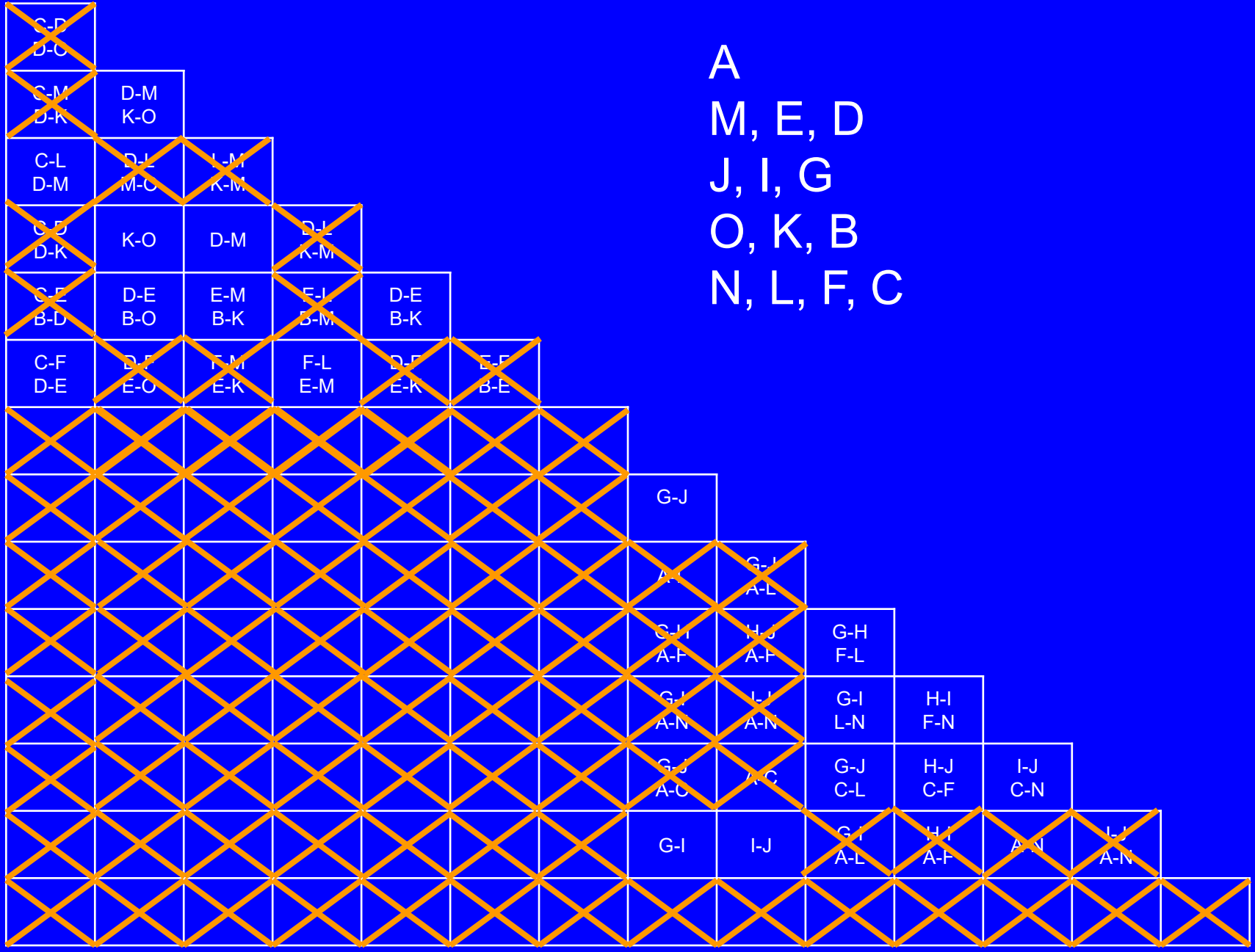
C-D D-C					
C-M D-K	D-M K-O				
C-L D-M	D-L M-O	L-M K-M			
C-D D-K	K-O	D-M	D-L K-M		
C-E B-D	D-E B-O	E-M B-K	E-L B-M	D-E B-K	
C-F D-E	D-F E-O	E-M E-K	F-L E-M	D-E E-K	E-F B-E

Παρούσα κατάσταση	Επόμενη κατάσταση, έξοδος Είσοδος = 0	Επόμενη κατάσταση, έξοδος Είσοδος = 1
A	K,1	B,1
B	C,0	D,1
C	D,0	O,1
D	G,1	A,0
E	J,1	A,0
F	M,0	K,1
G	G,1	L,0
H	H,1	F,0
I	I,1	N,0
J	J,1	C,0
K	L,0	M,1
L	D,0	K,1
M	I,1	A,0
N	E,0	B,1
O	F,0	E,1



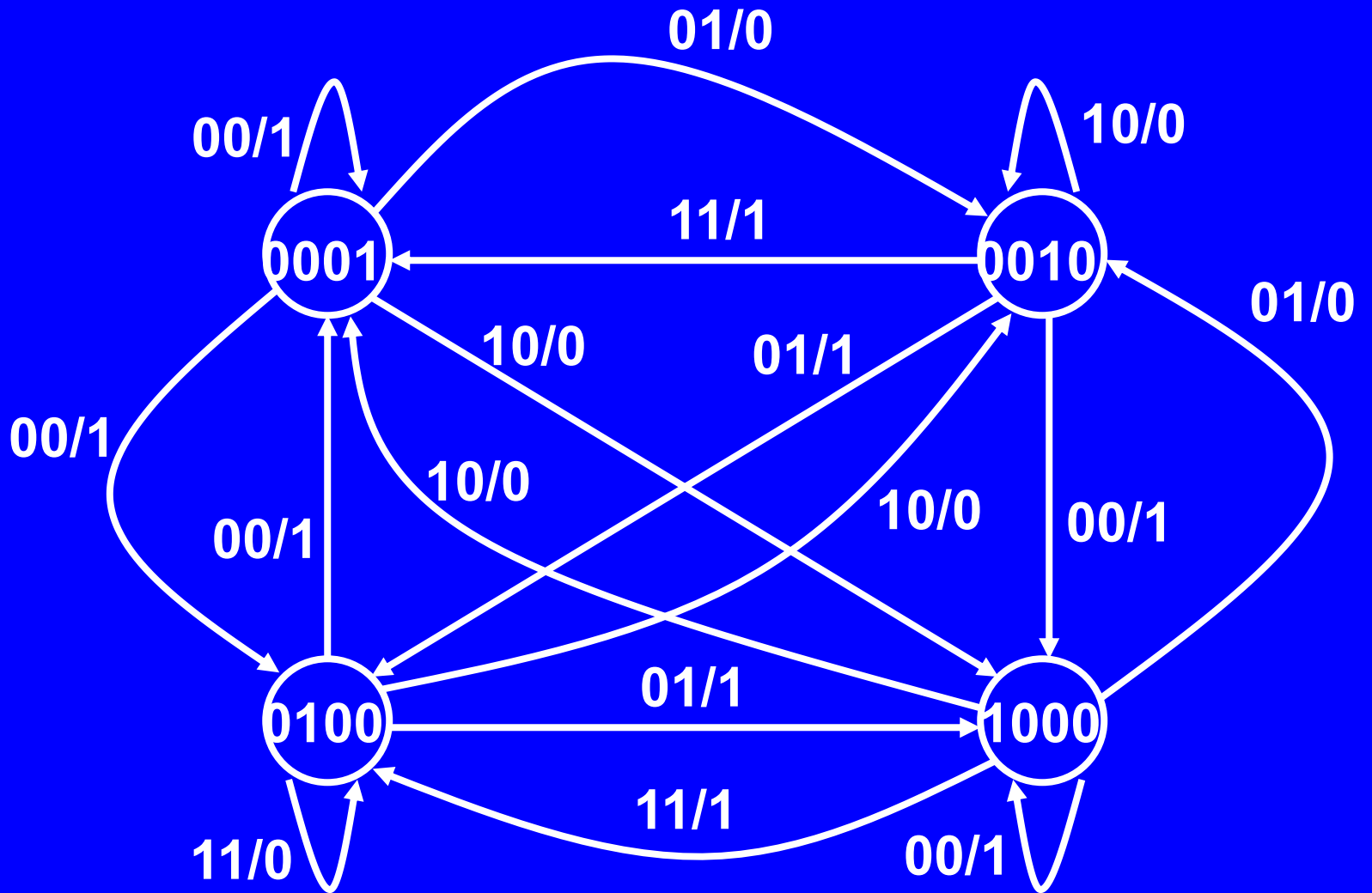
B C F K L N O D E G H I J M

C
F
K
L
N
O
D
E
G
H
I
J
M
A



B C F K L N O D E G H I J M

A
M, E, D
J, I, G
O, K, B
N, L, F, C



<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>X</u>	<u>Y</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>Z</u>
0	0	0	1	0	0	0	1	0	0	1
0	0	0	1	0	1	0	0	1	0	0
0	0	0	1	1	0	1	0	0	0	0
0	0	0	1	1	1	0	0	0	1	1
0	1	0	0	0	0	0	0	0	1	1
0	1	0	0	0	1	1	0	0	0	1
0	1	0	0	1	0	0	0	1	0	0
0	1	0	0	1	1	0	1	0	0	0
0	0	1	0	0	0	1	0	0	0	1
0	0	1	0	0	1	0	1	0	0	1
0	0	1	0	1	0	0	0	1	0	0
0	0	1	0	1	1	0	0	0	1	1
1	0	0	0	0	0	1	0	0	0	1
1	0	0	0	0	1	0	0	1	0	0
1	0	0	0	1	0	0	0	0	1	0
1	0	0	0	1	1	0	1	0	0	1

<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>X</u>	<u>Y</u>	<u>DA</u>	<u>DB</u>	<u>DC</u>	<u>DD</u>	<u>Z</u>
0	0	0	1	0	0	0	1	0	0	1
0	0	0	1	0	1	0	0	1	0	0
0	0	0	1	1	0	1	0	0	0	0
0	0	0	1	1	1	0	0	0	1	1
0	1	0	0	0	0	0	0	0	1	1
0	1	0	0	0	1	1	0	0	0	1
0	1	0	0	1	0	0	0	1	0	0
0	1	0	0	1	1	0	1	0	0	0
0	0	1	0	0	0	1	0	0	0	1
0	0	1	0	0	1	0	1	0	0	1
0	0	1	0	1	0	0	0	1	0	0
0	0	1	0	1	1	0	0	0	1	1
1	0	0	0	0	0	1	0	0	0	1
1	0	0	0	0	1	0	0	1	0	0
1	0	0	0	1	0	0	0	0	1	0
1	0	0	0	1	1	0	1	0	0	1

A	B	C	D	X	Y	DA	DB	DC	DD	Z
0	0	0	1	0	0	0	1	0	0	1
0	0	0	1	0	1	0	0	1	0	0
0	0	0	1	1	0	1	0	0	0	0
0	0	0	1	1	1	0	0	0	1	1
0	1	0	0	0	0	0	0	0	1	1
0	1	0	0	0	1	1	0	0	0	1
0	1	0	0	1	0	0	0	1	0	0
0	1	0	0	1	1	0	1	0	0	0
0	0	1	0	0	0	1	0	0	0	1
0	0	1	0	0	1	0	1	0	0	1
0	0	1	0	1	0	0	0	1	0	0
0	0	1	0	1	1	0	0	0	1	1
1	0	0	0	0	0	1	0	0	0	1
1	0	0	0	0	1	0	0	1	0	0
1	0	0	0	1	0	0	0	0	1	0
1	0	0	0	1	1	0	1	0	0	1

$$DA = DXY' + BX'Y + CX'Y' + AX'Y'$$

$$DB = DX'Y' + BXY + CX'Y + AXY$$

$$DC = DX'Y + BXY' + CXY' + AX'Y$$

$$DD = DXY + BX'Y' + CXY + AXY'$$

$$Z = DX'Y' + DXY + BX'Y' + BXY + CX'Y' + CXY + AX'Y' + AXY$$

A	B	C	D	X	Y	DA	DB	DC	DD	Z
0	0	0	1	0	0	0	1	0	0	1
0	0	0	1	0	1	0	0	1	0	0
0	0	0	1	1	0	1	0	0	0	0
0	0	0	1	1	1	0	0	0	1	1
0	1	0	0	0	0	0	0	0	1	1
0	1	0	0	0	1	1	0	0	0	1
0	1	0	0	1	0	0	0	1	0	0
0	1	0	0	1	1	0	1	0	0	0
0	0	1	0	0	0	1	0	0	0	1
0	0	1	0	0	1	0	1	0	0	1
0	0	1	0	1	0	0	0	1	0	0
0	0	1	0	1	1	0	0	0	1	1
1	0	0	0	0	0	1	0	0	0	1
1	0	0	0	0	1	0	0	1	0	0
1	0	0	0	1	0	0	0	0	1	0
1	0	0	0	1	1	0	1	0	0	1

$$DA = DXY' + BX'Y + CX'Y' + AX'Y'$$

$$DB = DX'Y' + BXY + CX'Y + AXY$$

$$DC = DX'Y + BXY' + CXY' + AX'Y$$

$$DD = DXY + BX'Y' + CXY + AXY'$$

$$Z = DX'Y' + CX'Y' + BX'Y' + AX'Y' + DXY + CXY + AXY + BX'Y + CX'Y$$

A	B	C	D	X	Y	DA	DB	DC	DD	Z
0	0	0	1	0	0	0	1	0	0	1
0	0	0	1	0	1	0	0	1	0	0
0	0	0	1	1	0	1	0	0	0	0
0	0	0	1	1	1	0	0	0	1	1
0	1	0	0	0	0	0	0	0	1	1
0	1	0	0	0	1	1	0	0	0	1
0	1	0	0	1	0	0	0	1	0	0
0	1	0	0	1	1	0	1	0	0	0
0	0	1	0	0	0	1	0	0	0	1
0	0	1	0	0	1	0	1	0	0	1
0	0	1	0	1	0	0	0	1	0	0
0	0	1	0	1	1	0	0	0	1	1
1	0	0	0	0	0	1	0	0	0	1
1	0	0	0	0	1	0	0	1	0	0
1	0	0	0	1	0	0	0	0	1	0
1	0	0	0	1	1	0	1	0	0	1

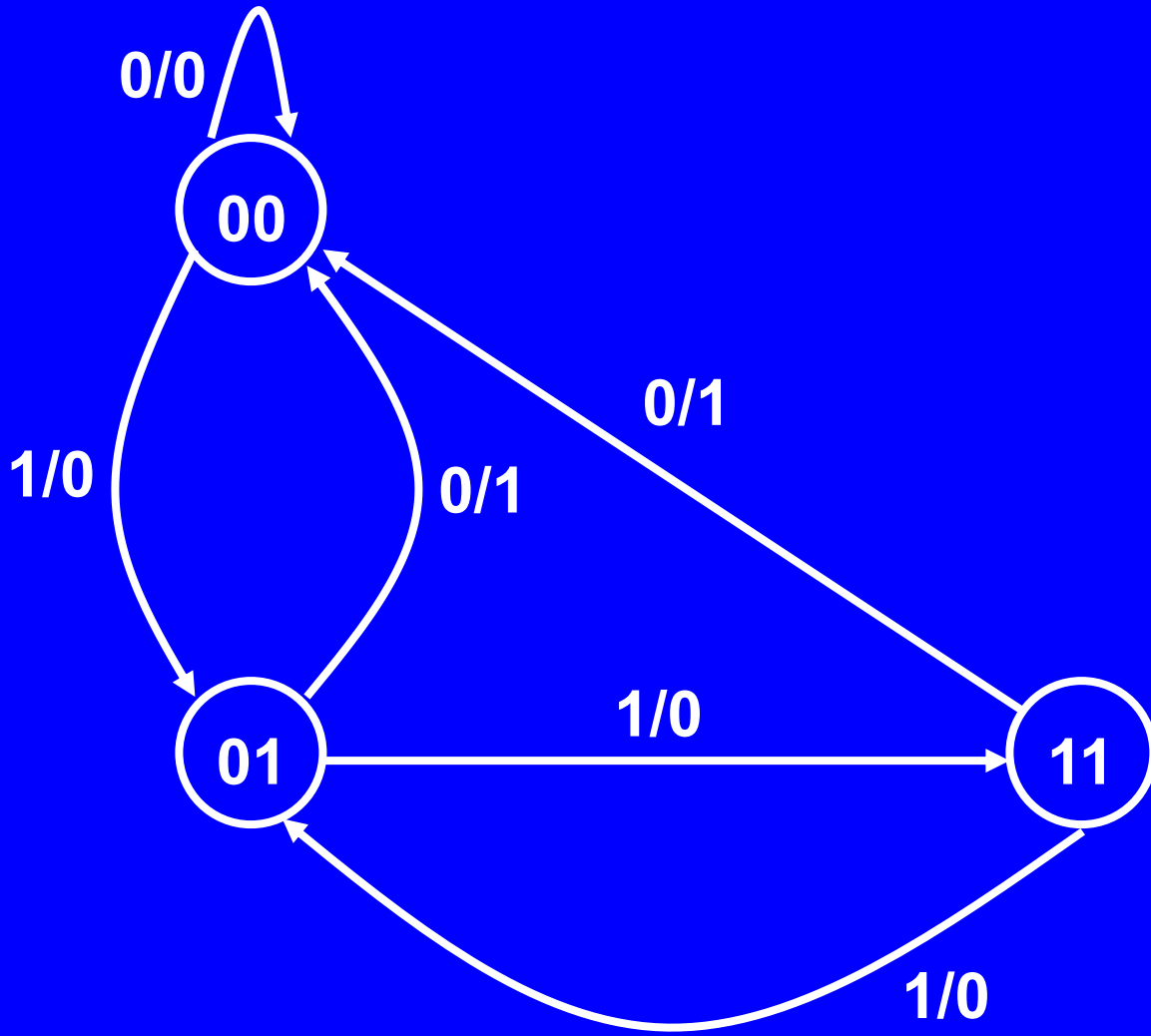
$$DA = DXY' + BX'Y + CX'Y' + AX'Y'$$

$$DB = DX'Y' + BXY + CX'Y + AXY$$

$$DC = DX'Y + BXY' + CXY' + AX'Y$$

$$DD = DXY + BX'Y' + CXY + AXY'$$

$$Z = X'Y' + B'XY + BX'Y + CX'Y$$



Αρχική		Είσοδος	Επόμενη		Έξοδος
A	B	X	A	B	Y
0	0	0	0	0	0
0	0	1	0	1	0
0	1	0	0	0	1
0	1	1	1	1	0
1	0	0	X	X	X
1	0	1	X	X	X
1	1	0	0	0	1
1	1	1	0	1	0

DA

A \ BX		BX			
		00	01	11	10
0	0	0	0	1	0
	1	X	X	0	0

Y

DB

A \ BX		BX			
		00	01	11	10
0	0	0	1	1	0
	1	X	X	1	0

A \ BX		BX			
		00	01	11	10
0	0	0	0	0	1
	1	X	X	0	1

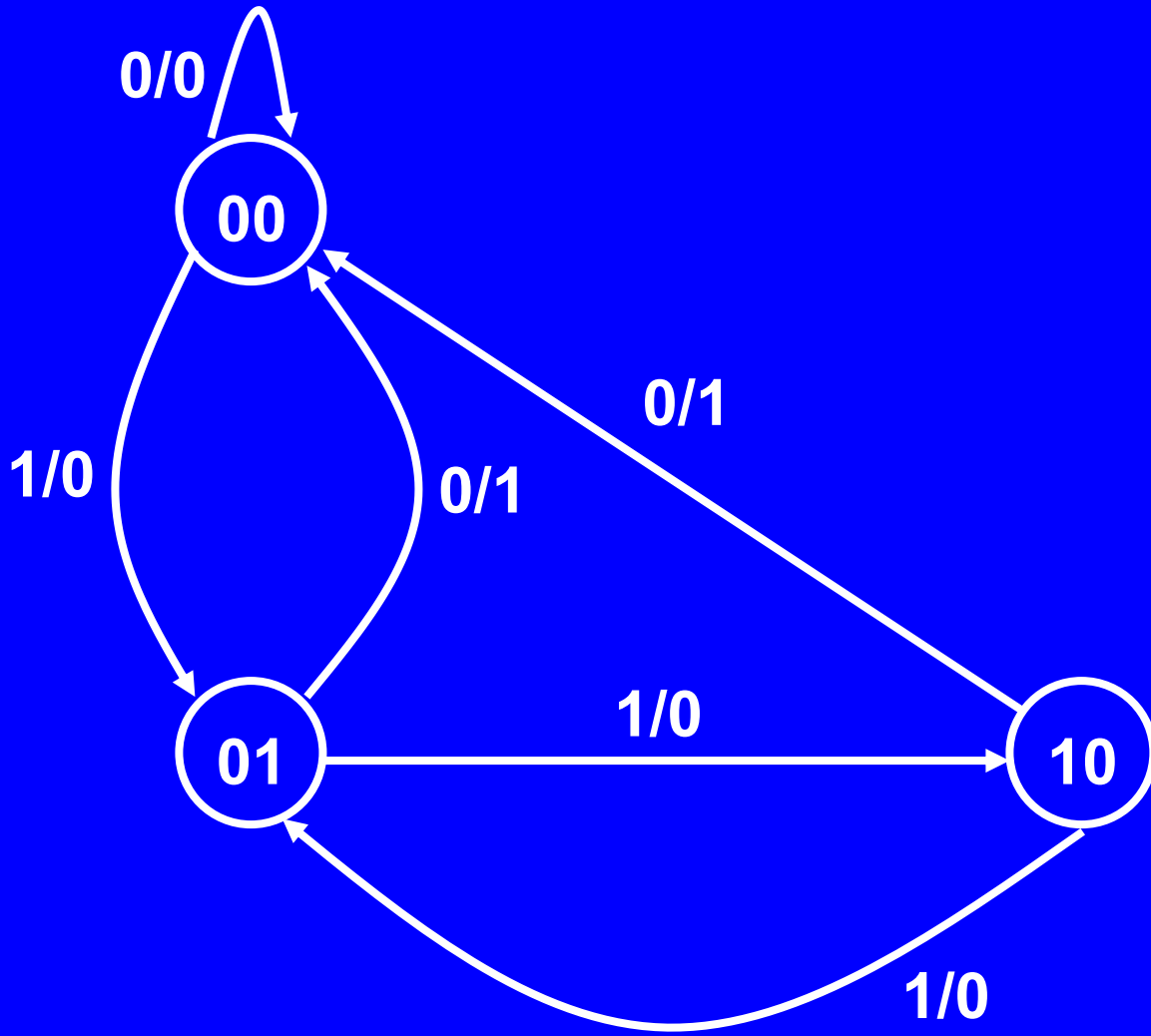
		BX			
		00	01	11	10
DA	A				
	0	0	0	1	0
1	X	X	0	0	

$DA = A'BX$
 $DB = X$
 $Y = BX'$

Y

		BX			
		00	01	11	10
DB	A				
	0	0	1	1	0
1	X	X	1	0	

		BX			
		00	01	11	10
A	0	0	0	0	1
	1	X	X	0	1



Αρχική		Είσοδος	Επόμενη		Έξοδος
A	B	X	A	B	Y
0	0	0	0	0	0
0	0	1	0	1	0
0	1	0	0	0	1
0	1	1	1	0	0
1	0	0	0	0	1
1	0	1	0	1	0
1	1	0	X	X	X
1	1	1	X	X	X

DA

A \ BX		00	01	11	10
		0	1	1	0
0	0	0	0	1	0
	1	0	0	X	X

Y

DB

A \ BX		00	01	11	10
		0	1	1	0
0	0	0	1	0	0
	1	0	1	X	X

A \ BX		00	01	11	10
		0	1	1	0
0	0	0	0	0	1
	1	1	0	X	X

DA A		BX			
		00	01	11	10
0	0	0	1	0	
	1	0	X	X	

$$DA = BX$$

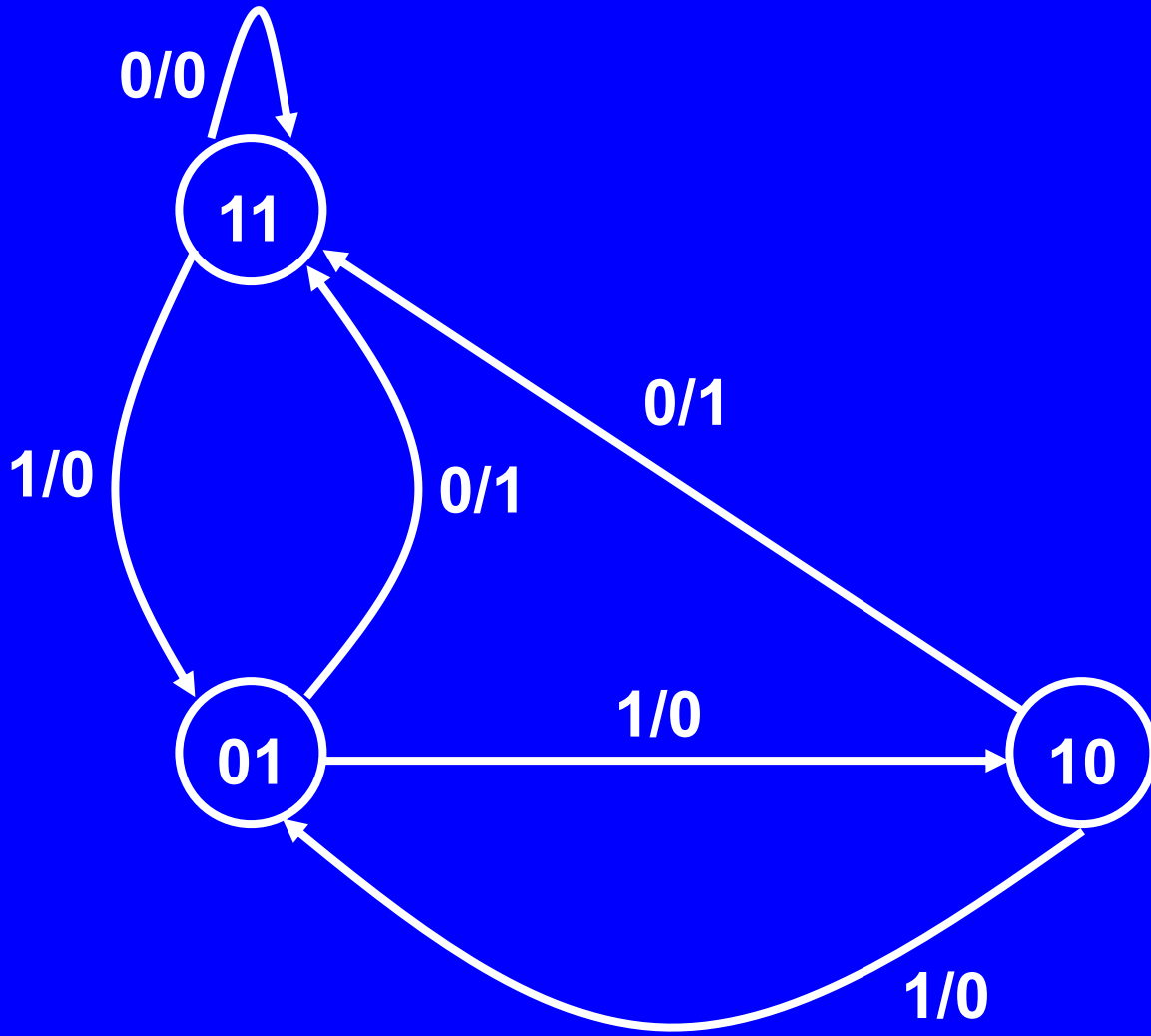
$$DB = B'X$$

$$Y = BX' + AX'$$

Y

DB A		BX			
		00	01	11	10
0	0	1	0	0	
	1	0	1	X	

A		BX			
		00	01	11	10
0	0	0	0	1	
	1	1	0	X	



Αρχική		Είσοδος	Επόμενη		Έξοδος
A	B	X	A	B	Y
0	0	0	X	X	X
0	0	1	X	X	X
0	1	0	1	1	1
0	1	1	1	0	0
1	0	0	1	1	1
1	0	1	0	1	0
1	1	0	1	1	0
1	1	1	0	1	0

DA

A \ BX		00	01	11	10
0	0	X	X	1	1
	1	1	0	0	1

Y

DB

A \ BX		00	01	11	10
0	0	X	X	0	1
	1	1	1	1	1

A \ BX		00	01	11	10
0	0	X	X	0	1
	1	1	0	0	0

		BX			
		00	01	11	10
DA	A				
	0	X	X	1	1
1	1	0	0	1	

$$DA = A' + X'$$

$$DB = A + X'$$

$$Y = A'X' + B'X'$$

Y

		BX			
		00	01	11	10
DB	A				
	0	X	X	0	1
1	1	1	1	1	

		BX			
		00	01	11	10
A	0	X	X	0	1
	1	1	0	0	0