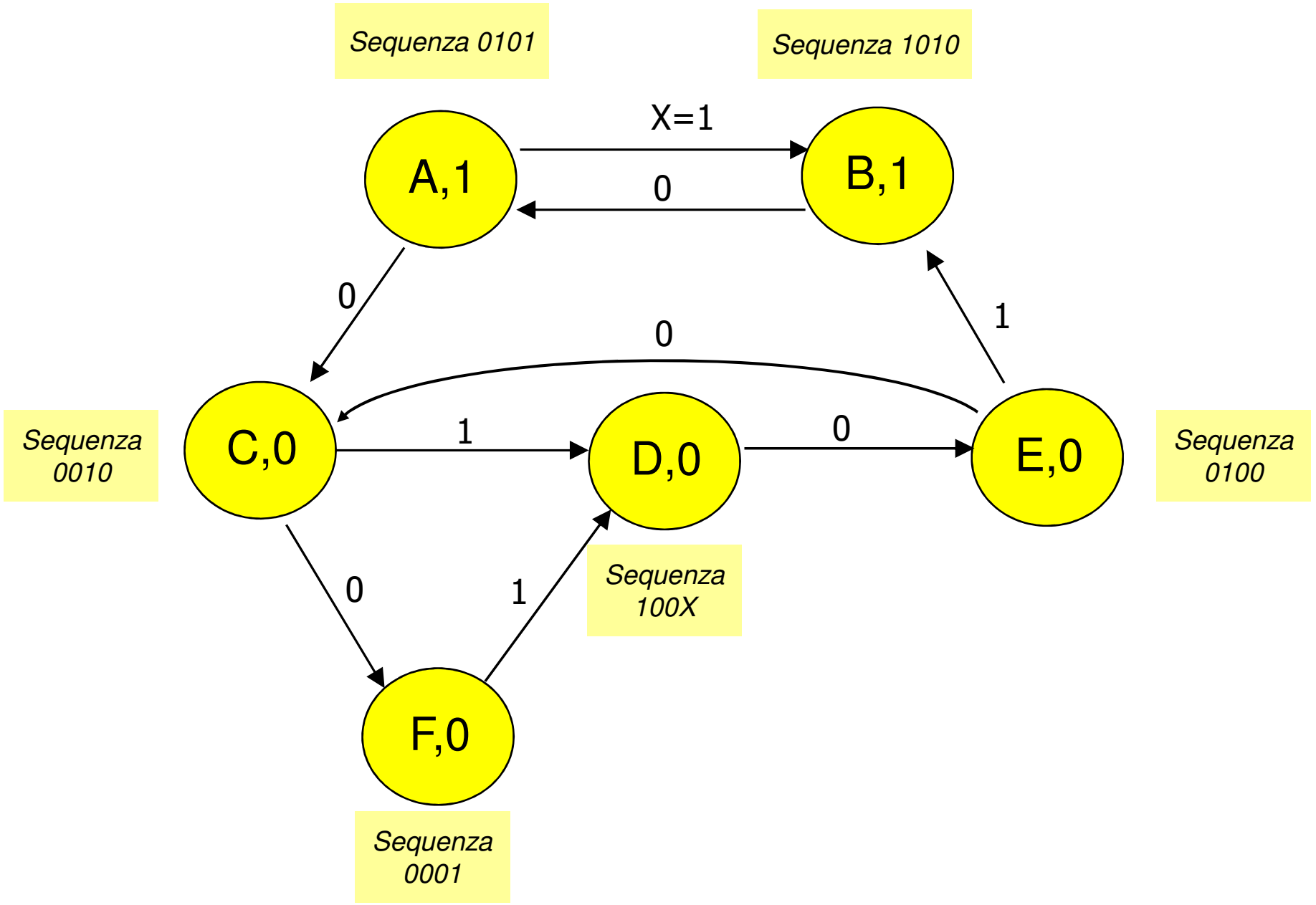
Esercizio 1.1 – Grafo



Esercizio 1.2 – TdF e TdT

s.p.	X = 0	X = 1	Z
A	C	B	1
B	A	-	1
C	F	D	0
D	E	-	0
E	C	B	0
F	-	D	0
	s.f.		

y2y1y0

	X = 0	X = 1	Z
A=000	011	001	1
B=001	000	---	1
C=011	101	010	0
D=010	100	---	0
E=100	011	001	0
F=101	---	010	0
111	---	---	0
110	---	---	-
	Y2Y1Y0		Z

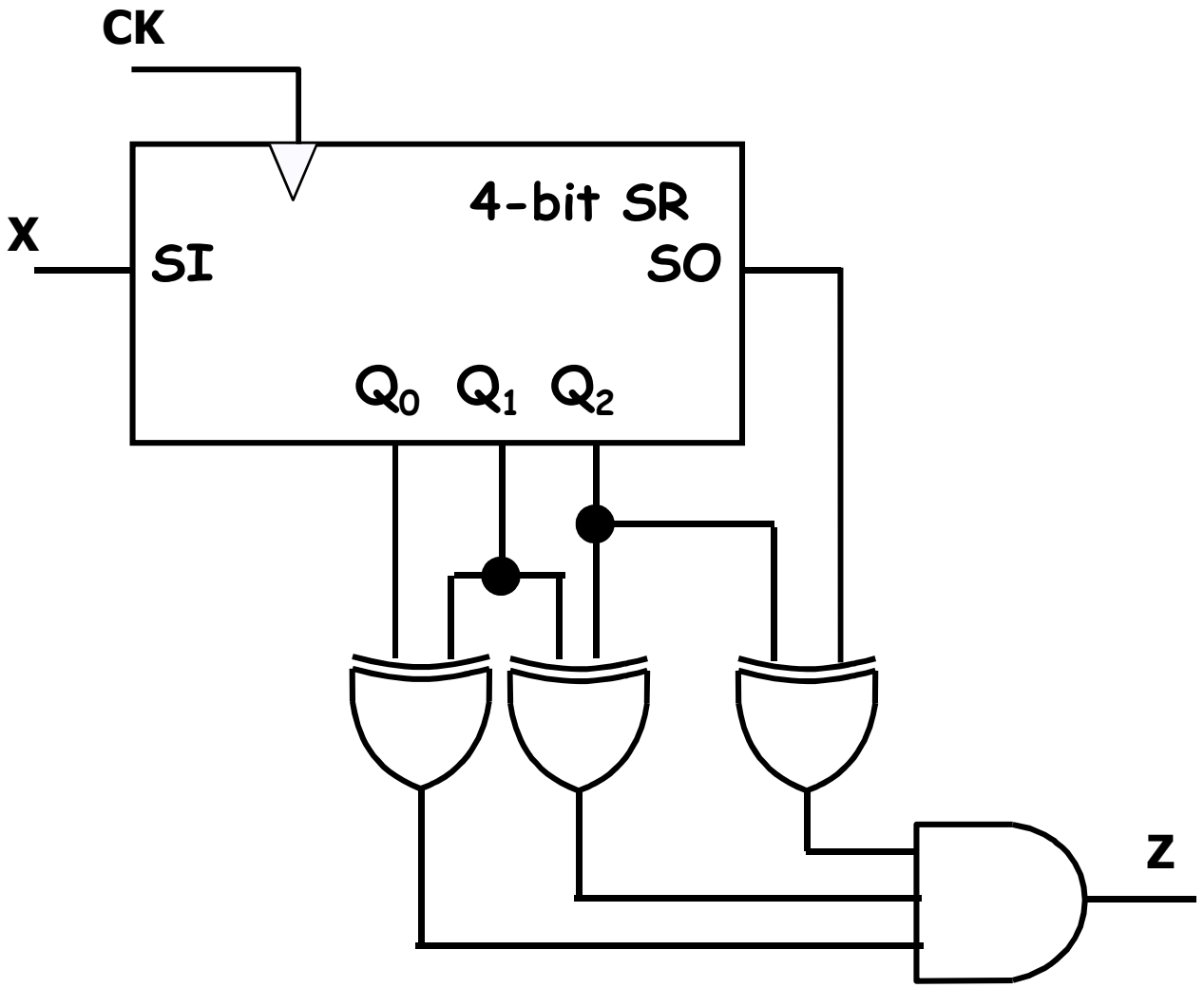
Esercizio 1.3 – Mappa variabile di peso minore

xy_2 \ y_1y_0	00	01	11	10
00	1	0	1	0
01	1	-	-	-
11	1	0	-	-
10	1	-	0	-

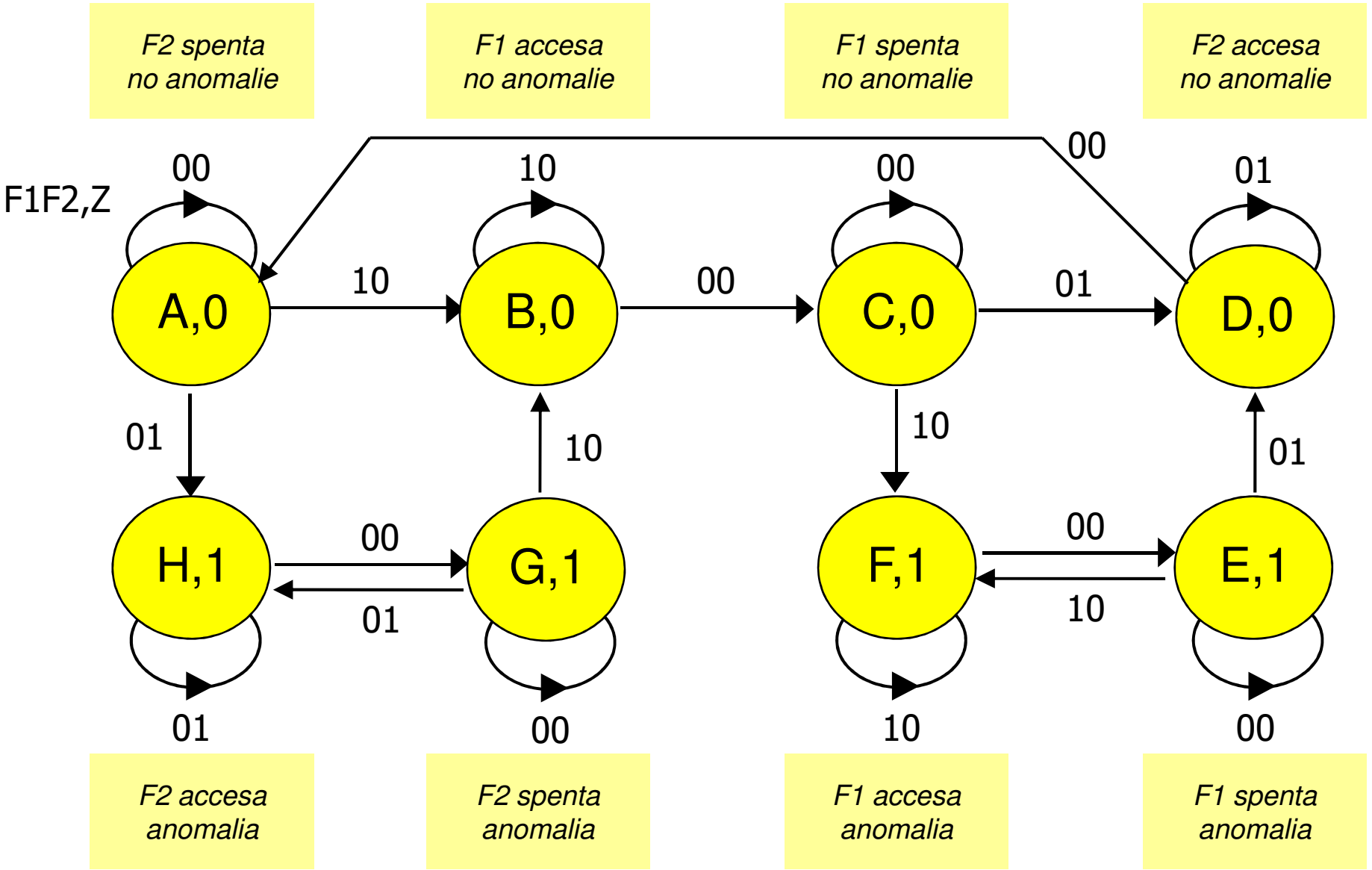
xy_2 \ y_1y_0	00	01	11	10
00	1	1	0	0
01	1	-	-	-
11	0	0	-	-
10	1	-	1	-

$T_0 = y1' + x$

Esercizio 1.4 – Sintesi con SR



Esercizio 2.1 – Grafo primitivo



Esercizio 2.2 – Tabella triangolare e CMC

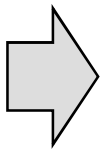
s.p.

	F1 F2 = 00	01	11	10
A	A,0	H,-	-,-	B,0
B	C,0	-,-	-,-	B,0
C	C,0	D,0	-,-	F,-
D	A,0	D,0	-,-	-,-
E	E,1	D,-	-,-	F,1
F	E,1	-,-	-,-	F,1
G	G,1	H,1	-,-	B,-
H	G,1	H,1	-,-	-,-

s.f., Z

B	~~AC~~						
C	~~DH~~ ~~BF~~	~~BF~~					
D	~~DH~~	~~AC~~	~~AC~~				
E	/	/	/	/			
F	/	/	/	/			
G	/	/	/	/	~~BF~~ ~~DH~~	~~BF~~ ~~EG~~	
H	/	/	/	/	~~EG~~ ~~DH~~	~~EG~~	
	A	B	C	D	E	F	G

A, B, C, D, EF, GH



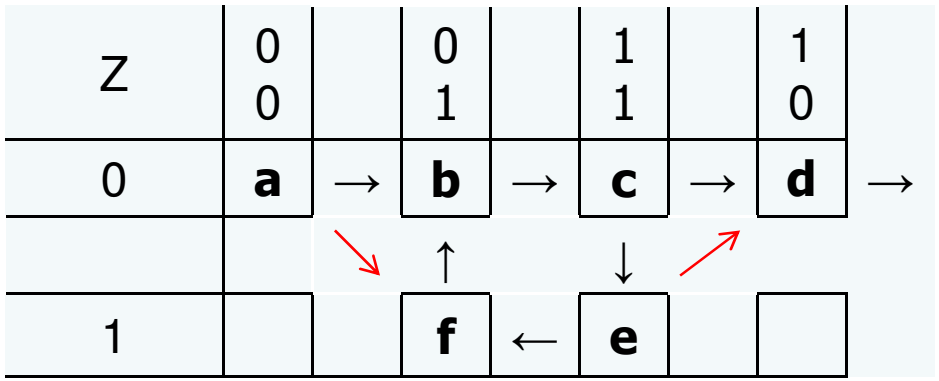
a={A}, b={B}, c={C},
d={D}, e={EF}, g={GH}

Esercizio 2.2 – TdF automa minimo

s.p. \ F1 F2	00	01	11	10
a	a,0	f,-	-,-	b,0
b	c,0	-,-	-,-	b,0
c	c,0	d,0	-,-	e,-
d	a,0	d,0	-,-	-,-
e	e,1	d,-	-,-	e,1
f	f,1	f,1	-,-	b,-

s.f., Z

Esercizio 2.3 – Grafo adiacenze e TdT



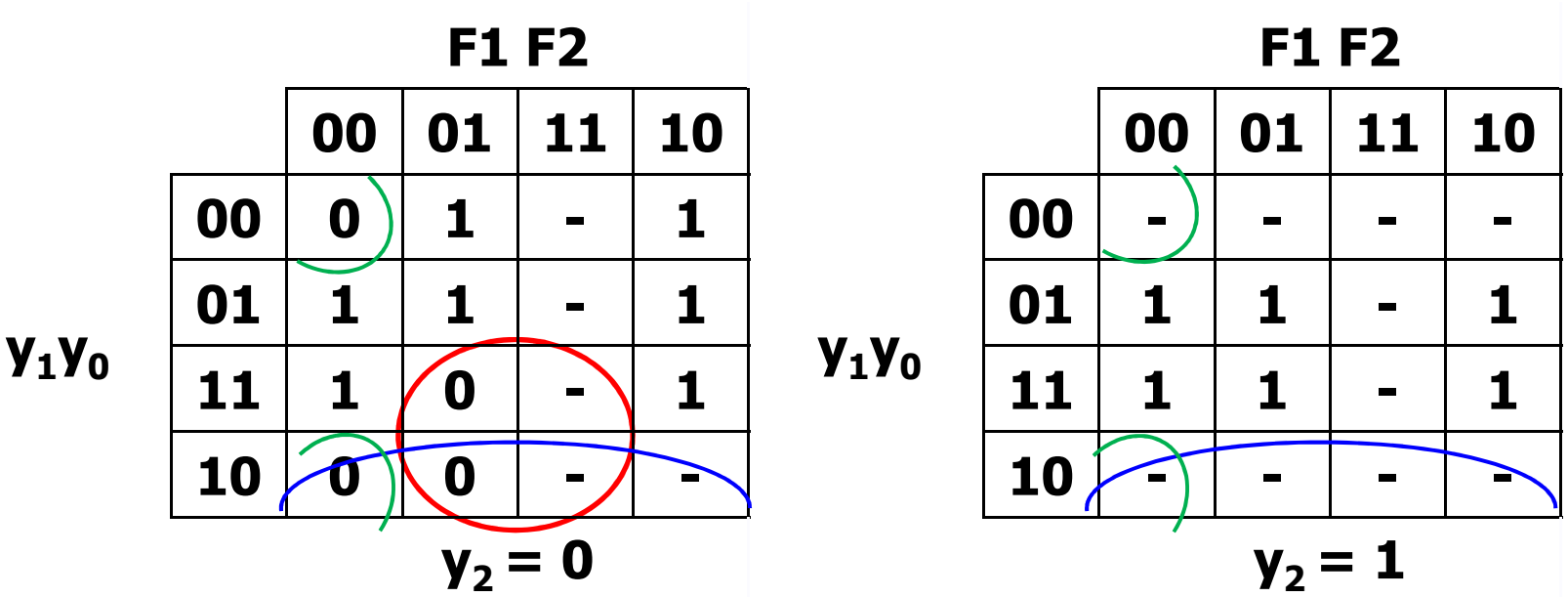
F1 F2

In giallo: corse non critiche modificando gli s.f. per a ed e

	00	01	11	10
a = 000	000,0	001,-	-,-	001,0
b = 001	011,0	101,-	-,-	001,0
c = 011	011,0	010,0	-,-	111,-
d = 010	000,0	010,0	-,-	-,-
100	-,-	-,-	-,-	-,-
f = 101	101,1	101,1	-,-	001,-
e = 111	111,1	011,-	-,-	111,-
110	-,-	-,-	-,-	-,-

$Y_2 Y_1 Y_0, Z$

Esercizio 2.4 – Mappe per Y0



$$Y_0 = (y1' + y0) (y1' + F2' + y2) (F1 + F2 + y0)$$

Esercizio 2.4 – Mappe per Z

F1 F2

y_1y_0	00	01	11	10
00	0	-	-	0
01	0	-	-	0
11	0	0	-	-
10	0	0	-	-

$y_2 = 0$

F1 F2

y_1y_0	00	01	11	10
00	-	-	-	-
01	1	1	-	-
11	1	-	-	-
10	-	-	-	-

$y_2 = 1$

Z = y2’

Esercizio 2.5 – Sintesi a NOR di Y0

$$Y_0 = (y1' + y0) (y1' + F2' + y2) (F1 + F2 + y0)$$

$$Y_0 = (y1' \downarrow y0) \downarrow (y1' \downarrow F2' \downarrow y2) \downarrow (F1 \downarrow F2 \downarrow y0)$$