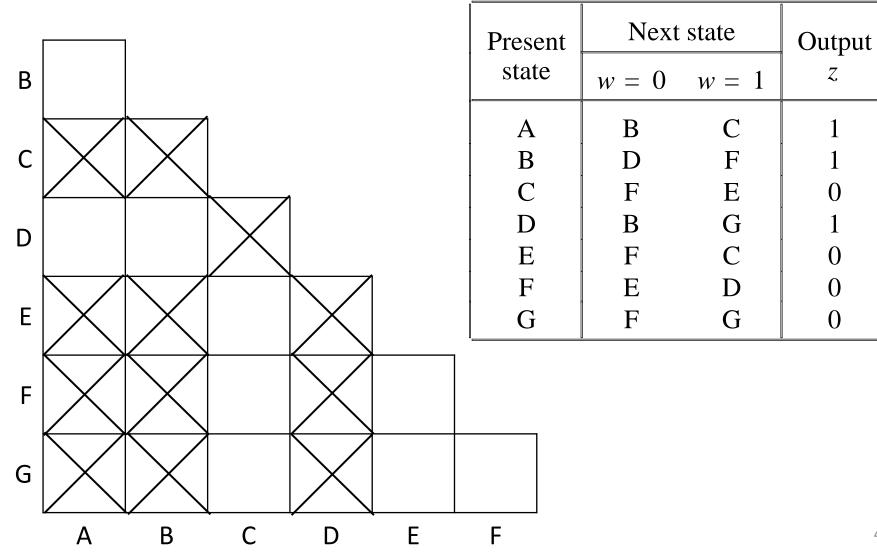
Implication Chart Exercise

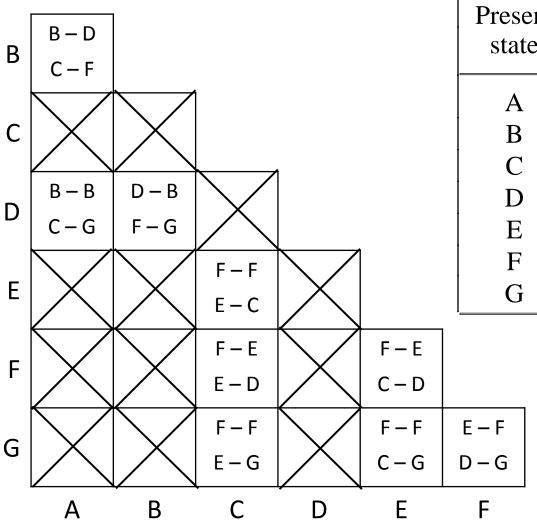
Use the implication chart method to minimize our previous partitioning example. Then rewrite the new state table.

Present	Next state		Output
state	w = 0	w = 1	Z.
A	В	C	1
В	D	F	1
C	F	E	0
D	В	G	1
Е	F	C	0
F	Е	D	0
G	F	G	0

Implication Chart Exercise

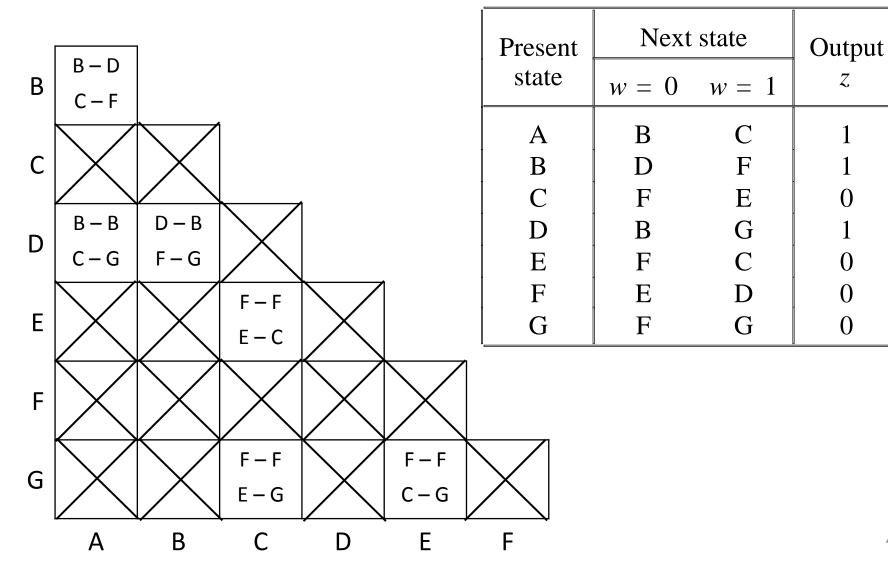


Initial Setup

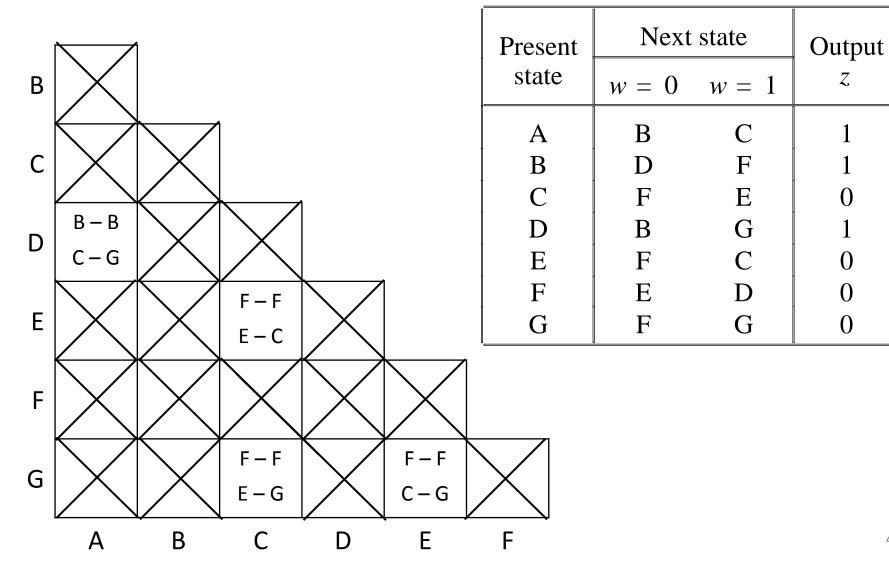


Present	Next state		Output
state	w = 0	w = 1	z
A	В	C	1
В	D	F	1
C	F	E	0
D	В	G	1
Е	F	C	0
F	Е	D	0
G	F	G	0

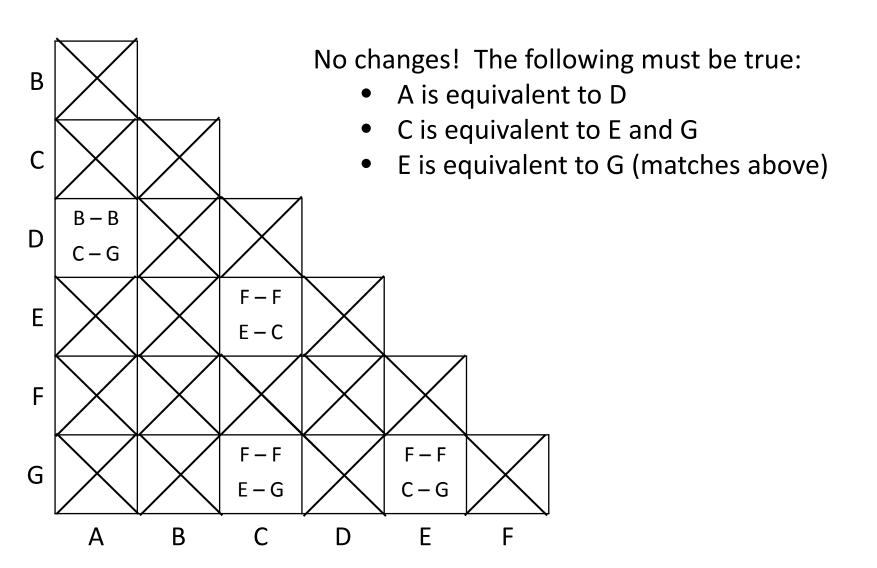
First Pass



Second Pass



Third Pass



Final State Table

Applying this info:

- A is equivalent to D
- C is equivalent to E and G
- E is equivalent to G (matches above)

Present state	Next state		Output
	w = 0	w = 1	z.
A	В	C	1
В	D	F	1
C	F	E	0
D	В	G	1
Е	F	C	0
F	Е	D	0
G	F	G	0

Present	Next state		Output
state	w = 0	w = 1	Z
A(D)	В	С	1
В	A	F	1
C(EG)	F	C	0
F	C	A	0