

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B							
C							
D							
E							
F							
G							
H							
	A	B	C	D	E	F	G

Build implication table for state pairs.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

Remove output incompatible pairs.

B							
C							
D							
E							
F							
G	X	X	X	X	X	X	
H							X
	A	B	C	D	E	F	G

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

List transition (next state) pairs.

B	D-B E-C						
C							
D							
E							
F							
G	X	X	X	X	X	X	
H							X
	A	B	C	D	E	F	G

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

List transition (next state) pairs.

B	D-B E-C						
C	F-B A-C						
D							
E							
F							
G	X	X	X	X	X	X	
H							X
	A	B	C	D	E	F	G

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

List transition (next state) pairs.

B	D-B E-C						
C	F-B A-C						
D	H-B G-C						
E							
F							
G	X	X	X	X	X	X	
H							X
	A	B	C	D	E	F	G

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

List all transition (next state) pairs.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Check compatibility of transition pair.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Check compatibility of transition pair.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Remove incompatible transition pairs.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Remove incompatible transition pairs.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Repeat compatibility check.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Remove incompatible transition pairs.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Repeat compatibility check.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Remove incompatible transition pairs.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	C	0
B	D	0	E	0
C	F	0	A	0
D	H	0	G	0
E	B	0	C	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-C						
C	F-B A-C	F-D A-E					
D	H-B G-C	H-D G-E	H-F G-A				
E	B-B C-C	B-D C-E	B-F C-A	B-H C-G			
F	D-B E-C	D-D E-E	D-F E-A	D-H E-G	D-B E-C		
G	X	X	X	X	X	X	
H	H-B A-C	H-D A-E	H-F A-A	H-H A-G	H-B A-C	H-D A-E	X
	A	B	C	D	E	F	G

Merge remaining compatible states.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	A	0
B	D	0	E	0
D	H	0	G	0
E	B	0	A	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-A						
C	F-B A-A	F-D A-E					
D	H-B G-A	H-D G-E	H-F G-A				
E	B-B A-A	B-D A-E	B-F A-A	B-H A-G			
F	D-B E-A	D-D E-E	D-F E-A	D-H E-G	D-B E-A		
G	X	X	X	X	X	X	
H	H-B A-A	H-D A-E	H-F A-A	H-H A-G	H-B A-A	H-D A-E	X
	A	B	C	D	E	F	G

Update implication table.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	A	0
B	D	0	E	0
D	H	0	G	0
E	B	0	A	0
F	D	0	E	0
G	F	1	A	0
H	H	0	A	0

B	D-B E-A						
C	F-B A-A	F-D A-E					
D	H-B G-A	H-D G-E	H-F G-A				
E	B-B A-A	B-D A-E	B-F A-A	B-H A-G			
F	D-B E-A	D-D E-E	D-F E-A	D-H E-G	D-B E-A		
G	X	X	X	X	X	X	
H	H-B A-A	H-D A-E	H-F A-A	H-H A-G	H-B A-A	H-D A-E	X
	A	B	C	D	E	F	G

Merge remaining compatible states.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	A	0
B	D	0	A	0
D	H	0	G	0
F	D	0	A	0
G	F	1	A	0
H	H	0	A	0

B	D-B A-A						
C	F-B A-A	F-D A-A					
D	H-B G-A	H-D G-A	H-F G-A				
E	B-B A-A	B-D A-A	B-F A-A	B-H A-G			
F	D-B A-A	D-D A-A	D-F A-A	D-H A-G	D-B A-A		
G	X	X	X	X	X	X	
H	H-B A-A	H-D A-A	H-F A-A	H-H A-G	H-B A-A	H-D A-A	X
	A	B	C	D	E	F	G

Update implication table.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	A	0
B	D	0	A	0
D	H	0	G	0
F	D	0	A	0
G	F	1	A	0
H	H	0	A	0

B	D-B A-A						
C	F-B A-A	F-D A-A					
D	H-B G-A	H-D G-A	H-F G-A				
E	B-B A-A	B-D A-A	B-F A-A	B-H A-G			
F	D-B A-A	D-D A-A	D-F A-A	D-H A-G	D-B A-A		
G	X	X	X	X	X	X	
H	H-B A-A	H-D A-A	H-F A-A	H-H A-G	H-B A-A	H-D A-A	X
	A	B	C	D	E	F	G

Merge remaining compatible states.

Implication Table

	input=0		input=1	
	next state	output	next state	output
A	B	0	A	0
B	D	0	A	0
D	H	0	G	0
G	B	1	A	0
H	H	0	A	0

B	D-B A-A						
C	B-B A-A	B-D A-A					
D	H-B G-A	H-D G-A	H-B G-A				
E	B-B A-A	B-D A-A	B-B A-A	B-H A-G			
F	D-B A-A	D-D A-A	D-B A-A	D-H A-G	D-B A-A		
G	X	X	X	X	X	X	
H	H-B A-A	H-D A-A	H-B A-A	H-H A-G	H-B A-A	H-D A-A	X
	A	B	C	D	E	F	G

Update implication table.