

# Forward Chaining Example

Rules	Premises							Conclusions					
	A	B	C	D	E	F	G	C	D	E	F	G	H
R1	X	X						X					
R2	X	X							X				
R3	X		X			X				X			
R4		X			X							X	
R5		X	X									X	
R6	X				X								X
R7	X		X										X
R8		X		X				X					
R9						X							X
R10							X						X

Goal: Proof of H; Given: A and B

Forward Chaining

Depth First

		R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
		2	2	3	2	2	2	2	2	1	1
A		1	1	2			1	1			
B		0	0		1	1			1		
C	R1			1		0		0			
G	R5										0
H	R10										

Breadth First

		R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
		2	2	3	2	2	2	2	2	1	1
A		1	1	2			1	1			
B		0	0		1	1			1		
C	R1			1		0		0			
D	R2								0		
G	R5										0
H	R7										

