(9) Draw the following DFA using table filling algorithm where A is the start state and states C, F & I are the final states.

δ	0	1
→ A	B	E
B	C	F
*C	D	H
D	E	H
E	F	I
*F	G	B
G	H	B
H	I	C
*I	A	E

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

PTO

f → C, F, I.

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δ	0	1	F/NF	O/⊗
A	B	E	NF , NF	⊗
B	C	F	F , F	
A	B	E	NF , NF	O
D	E	H	NF , NF	
A	B	E	NF , NF	⊗
E	F	I	F , F	
A	B	E	NF , NF	O
G	H	B	NF , NF	
A	B	E	NF , NF	⊗
H	I	C	F , F	
B	C	F	F , F	⊗
D	E	H	NF , NF	
B	C	F	F , F	O
E	F	I	F , F	
B	C	F	F , F	⊗
G	H	B	NF , NF	
B	C	F	F , F	O
H	I	C	F , F	
C	D	H	NF , NF	O
F	G	B	NF , NF	

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δ	0	1	F/NF	O/⊗
C	D	H	NF, NF	○
I	A	E	NF, NF	
D	E	H	NF, NF	⊗
E	F	I	NF, F	
D	E	H	NF, NF	⊗
H	I	C	F, F	
D	E	H	NF, NF	○
G	H	B	NF, NF	
E	F	I	F, F	⊗
G	H	B	NF, NF	
E	F	I	F, F	○
H	I	C	F, F	
F	G	B	NF, NF	○
I	A	E	NF, NF	
G	H	B	NF, NF	⊗
H	I	C	F, F	

PTO

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Pairing

(A, D) , (A, G) , (D, G) ⇒ (A, D, G)

(B, H) , (B, E) , (E, H) ⇒ (B, H, E)

(C, E) , (C, I) , (F, I) ⇒ (C, F, I)

Final DFA