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

	A	B	C	D	E	F	G	H
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	X	X

for A & B

δ	0	1	
A	B	E	(Nf, Nf)
B	C	F	(f, f)

Hence A cannot be equivalent to B

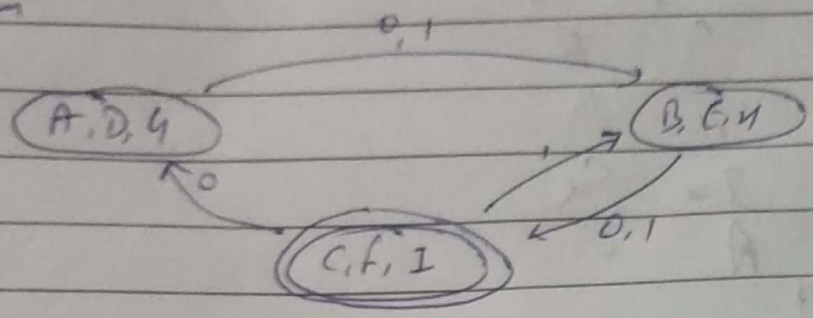
Similarly (G, H), (A, E), (A, H), (B, D), (B, G), (D, H), (E, G), (D, E)

SPLASH

Pairs

(A, D) (A, G) (D, F) ⇒ (A, D, G)
(B, H) (B, E) (E H) ⇒ (B, H, C)
(C, F) (C, I) (F, I) ⇒ (C, F, I)
D, H) ⇒ (D, H)

Diagram



(Q2)

δ	0	1
→ q_1	q_2	q_3
q_2	q_3	q_5
* q_3	q_4	q_3
q_4	q_3	q_5
* q_5	q_2	q_5

	q_1	q_2	q_3	q_4
q_2	X			
* q_3	X	X		
q_4	X		X	
* q_5	X	X		X

δ	0	1	
q_2	q_3	q_5	(Nf, f)
q_4	q_3	q_5	(f, f)

X

δ	0	1	
q_1	q_2	q_3	Nf
q_2	q_3	q_5	f

δ	0	1	
q_2	q_2	q_3	(Nf, f)
q_4	q_3	q_5	(f, f)

	0	1	
q_3	q_4	q_3	(nf, F)
q_5	q_2	q_5	(nf, F)

(q_3, q_5) } → on equivalent, on reaching
(q_2, q_4) } same destination.

DFA