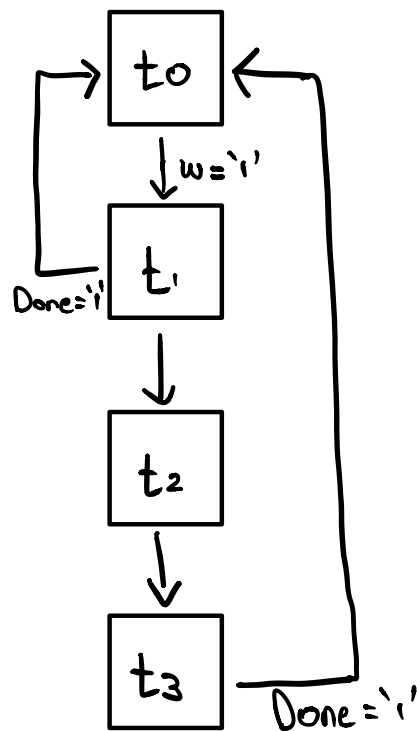


1) State Diagram:



Mux Table

Rout	Register
10000000	R_0
01000000	R_1
00100000	R_2
00010000	R_3
00001000	R_4
00000100	R_5
00000010	R_6
00000001	R_7

Gout	DINOut	Register
0	0	DEN
0	1	DIN
1	0	G