

Q	T	Q(t+1)
0	0	0
0	1	1
1	0	1
1	1	0

Q	D	Q(t+1)
0	0	0
0	1	1
1	0	0
1	1	1

S	R	Q_n	Q_{n+1}	
0	0	0	0	} Q_n (same as input)
0	0	1	1	
0	1	0	0	} 0
0	1	1	0	
1	0	0	1	} 1
1	0	1	1	
1	1	0	x	} Invalid
1	1	1	x	

J	K	Q_N	Q_{N+1}
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

Truth Table for 2x1 MUX :-

S	A	B	Y
0	0	x	0
0	1	x	1
1	x	0	0
1	x	1	1

