8-bit Johnson Counter

Johnson Counter is an example of synchronous counter. In this also output of last flip-flop connected to input of first flip-flop. Some like ring counter but in this input is negation of O innated of O.

Truth table of 8-bit Johnson Counter

Pulse No.	FFA	FFB	FFC	FFD	FFE	FFF	FFG	FFH
0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	0	0	0
2	1	1	0	0	0	0	0	0
3	1	1	1	0	0	0	0	0
4	1	1	1	1	0	0	0	0
5	1	1	1	1	1	0	0	0
6	1	1	1	1	1	1	0	0
7	1	1	1	1	1	1	1	0
8	1	1	1	1	1	1	1	1
9	0	1	1	1	1	1	1	1
10	0	0	1	1	1	1	1	1
11	0	0	0	1	1	1	1	1
12	0	0	0	0	1	1	1	1
13	0	0	0	0	0	1	1	1
14	0	0	0	0	0	0	1	1
15	0	0	0	0	0	0	0	1

