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Note: S_2/N_2 is the most significant bit. For example, for state "110": $S_2=1, S_1=1, S_0=0$

N0

$S_0 \ G$ $S_2 \ S_1$	00	01	11	10
00	1	1	0	1
01	1	0	0	0
11	X	X	X	X
10	0	0	X	X

Expression: ~~$S_2'S_0'G + S_2'S_1S_0' + S_2S_1G$~~

N2

$S_0 \ G$ $S_2 \ S_1$	00	01	11	10
00	0	0	0	0
01	0	0	1	0
11	X	X	X	X
10	0	0	X	X

Expression: S_1S_0G

N1

$S_0 \ G$ $S_2 \ S_1$	00	01	11	10
00	0	1	0	0
01	0	0	0	1
11	X	X	X	X
10	0	1	X	X

Expression: $S_1'S_0'G + S_1S_0G'$

A

$S_0 \ G$ $S_2 \ S_1$	00	01	11	10
00	1	1	0	0
01	1	1	1	1
11	X	X	X	X
10	0	0	X	X

Expression: $S_2'S_0' + S_2'S_1$

B

$S_0 \ G$ $S_2 \ S_1$	00	01	11	10
00	0	0	0	0
01	1	1	1	1
11	X	X	X	X
10	1	1	X	X

Expression: $S_2S_0' + S_2'S_1$

C

$S_0 \ G$ $S_2 \ S_1$	00	01	11	10
00	0	0	1	1
01	0	0	0	0
11	X	X	X	X
10	1	1	X	X

Expression: $S_2S_1'S_0 + S_2S_0'$

D

$S_0 \ G$ $S_2 \ S_1$	00	01	11	10
00	0	0	0	0
01	0	0	1	1
11	X	X	X	X
10	1	1	X	X

Expression: $S_2S_0' + S_1S_0$