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Group ID: 2  
Session: 2

## CMPE 240 Experiment 2 Preliminary Work

Truth Table:

#	x4	x3	x2	x1	x0	F
0	0	0	0	0	0	0
1	0	0	0	0	1	0
2	0	0	0	1	0	1
3	0	0	0	1	1	1
4	0	0	1	0	0	0
5	0	0	1	0	1	1
6	0	0	1	1	0	0
7	0	0	1	1	1	1
8	0	1	0	0	0	1
9	0	1	0	0	1	0
10	0	1	0	1	0	1
11	0	1	0	1	1	0
12	0	1	1	0	0	1
13	0	1	1	0	1	0
14	0	1	1	1	0	1
15	0	1	1	1	1	0
16	1	0	0	0	0	0
17	1	0	0	0	1	0
18	1	0	0	1	0	0
19	1	0	0	1	1	1
20	1	0	1	0	0	0
21	1	0	1	0	1	1
22	1	0	1	1	0	1
23	1	0	1	1	1	1
24	1	1	0	0	0	1
25	1	1	0	0	1	0
26	1	1	0	1	0	0
27	1	1	0	1	1	0
28	1	1	1	0	0	0
29	1	1	1	0	1	0
30	1	1	1	1	0	0
31	1	1	1	1	1	1

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### List of components used in the design:

1. 2x4 Decoder
2. 8x1 Multiplexer
3. NOT gates (*2 units*)

### Circuit:

