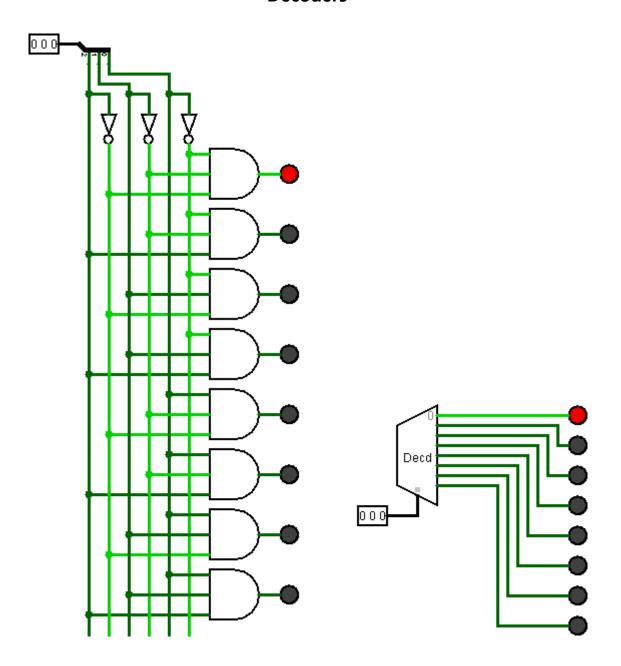
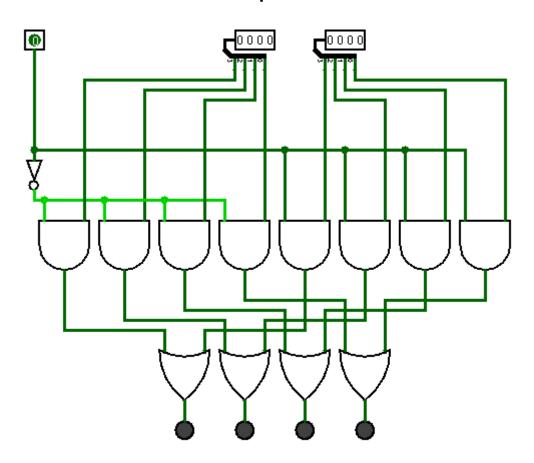
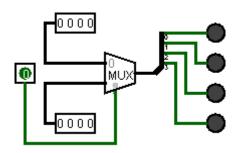
Jun ho Lim

Decoders

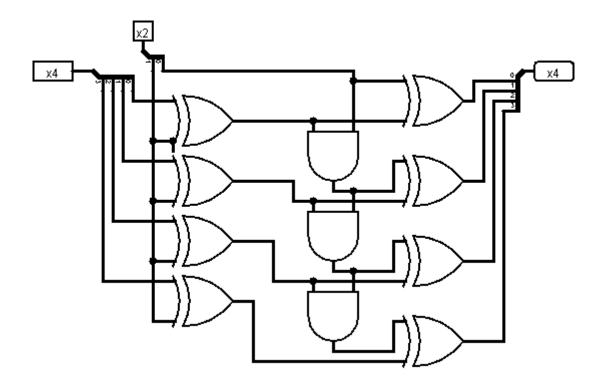


Multiplexers





Tiny Alu Circuit



Input A	Input A	Input A	Input A	Control A	Control B	Output
0	0	0	0	0	0	0000
0	0	0	0	0	1	0001
0	0	0	0	1	0	1111
0	0	0	0	1	1	0000
0	0	0	1	0	0	0001
0	0	0	1	0	1	0010
0	0	0	1	1	0	1110
0	0	0	1	1	1	1111
0	0	1	0	0	0	0010
0	0	1	0	0	1	0011
0	0	1	0	1	0	1101
0	0	1	0	1	1	1110
0	0	1	1	0	0	0011
0	0	1	1	0	1	0100
0	0	1	1	1	0	1100
0	0	1	1	1	1	1101
0	1	0	0	0	0	0100

0	1	0	0	0	1	0101
0	1	0	0	1	0	1011
0	1	0	0	1	1	1100
0	1	0	1	0	0	0101
0	1	0	1	0	1	0110
0	1	0	1	1	0	1010
0	1	0	1	1	1	1011
0	1	1	0	0	0	0110
0	1	1	0	0	1	0111
0	1	1	0	1	0	1001
0	1	1	0	1	1	1010
0	1	1	1	0	0	0111
0	1	1	1	0	1	1000
0	1	1	1	1	0	1000
0	1	1	1	1	1	1001
1	0	0	0	0	0	1000
1	0	0	0	0	1	1001
1	0	0	0	1	0	0111
1	0	0	0	1	1	1000
1	0	0	1	0	0	1001
1	0	0	1	0	1	1010
1	0	0	1	1	0	0110
1	0	0	1	1	1	0111
1	0	1	0	0	0	1010
1	0	1	0	0	1	1011
1	0	1	0	1	0	0101
1	0	1	0	1	1	0110
1	0	1	1	0	0	1011
1	0	1	1	0	1	1100
1	0	1	1	1	0	0100
1	0	1	1	1	1	0101
1	1	0	0	0	0	1100
1	1	0	0	0	1	1101
1	1	0	0	1	0	0011
1	1	0	0	1	1	0100
1	1	0	1	0	0	1101
1	1	0	1	0	1	1110
1	1	0	1	1	0	0010
1	1	0	1	1	1	0011

1	1	1	0	0	0	1110
1	1	1	0	0	1	1111
1	1	1	0	1	0	0001
1	1	1	0	1	1	0010
1	1	1	1	0	0	1111
1	1	1	1	0	1	0000
1	1	1	1	1	0	0000
1	1	1	1	1	1	0001