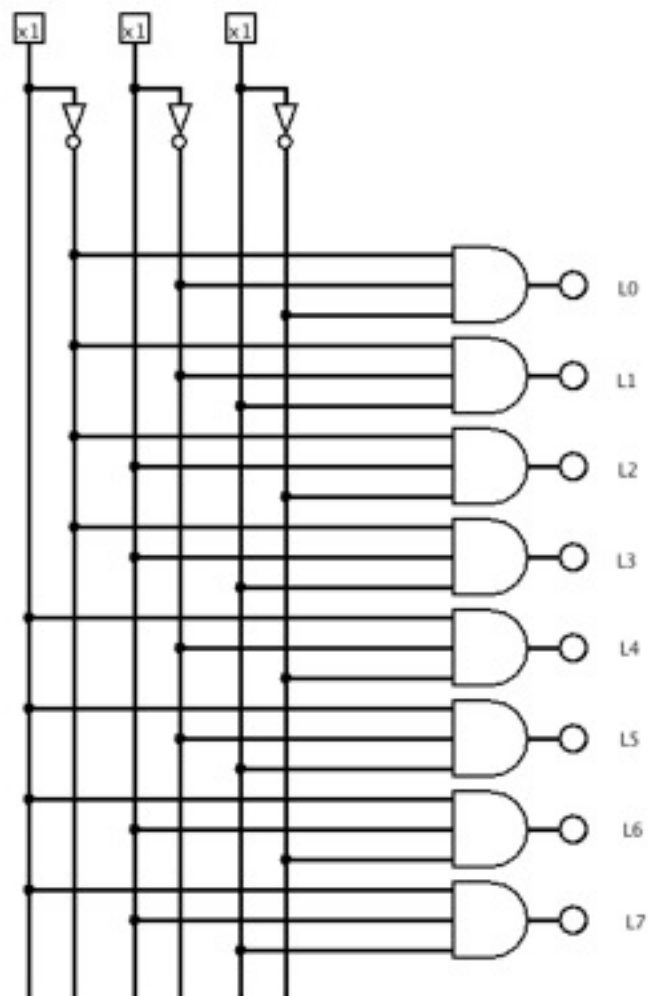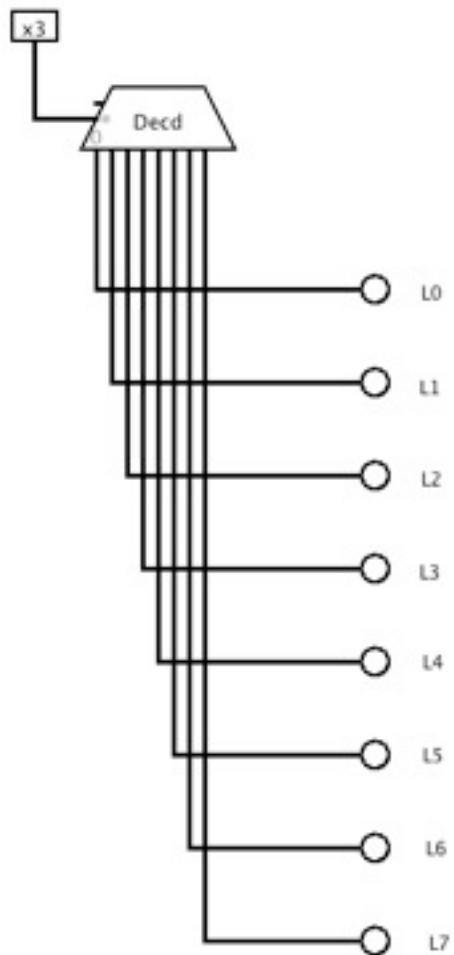CIRCUIT 1   Octal Decoder

CIRCUIT 2

Octal Decoder
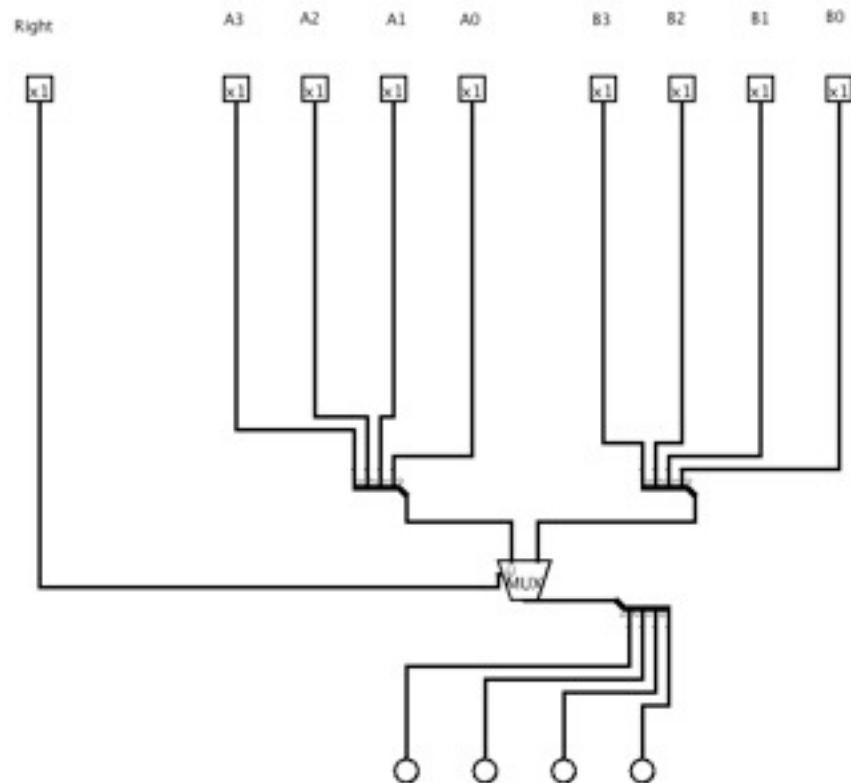
CIRCUIT 3

Nibble Multiplexer – 2 to 1
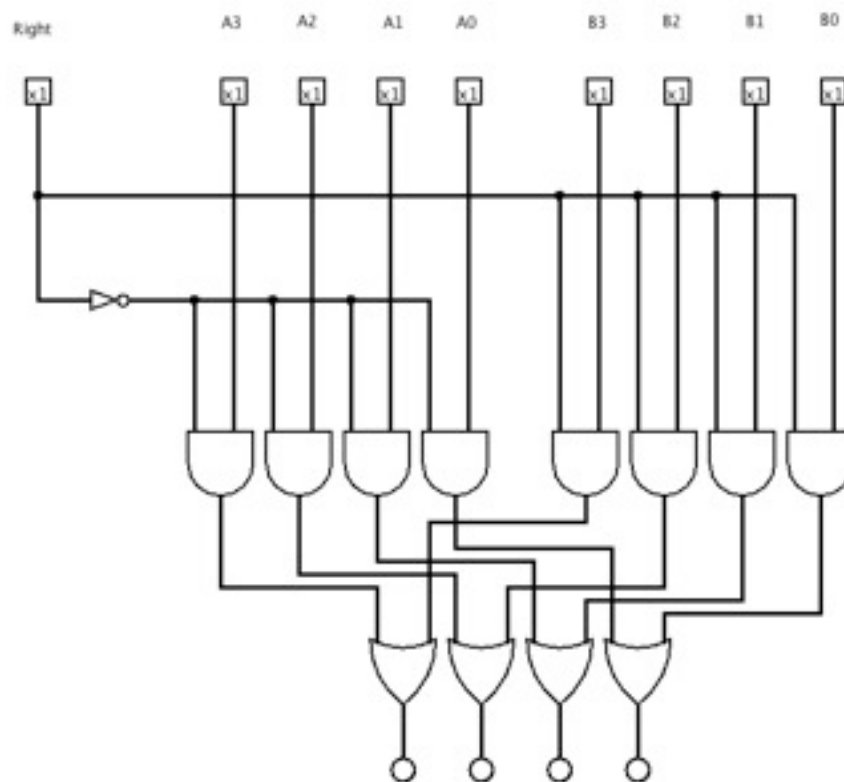
CIRCUIT 4

Nibble Multiplexer – 2 to 1

Right A3 A2 A1 A0 B3 B2 B1 B0

x1 x1 x1 x1 x1 x1 x1 x1 x1

MUX

CIRCUIT 5

Nibble Bus with Drivers