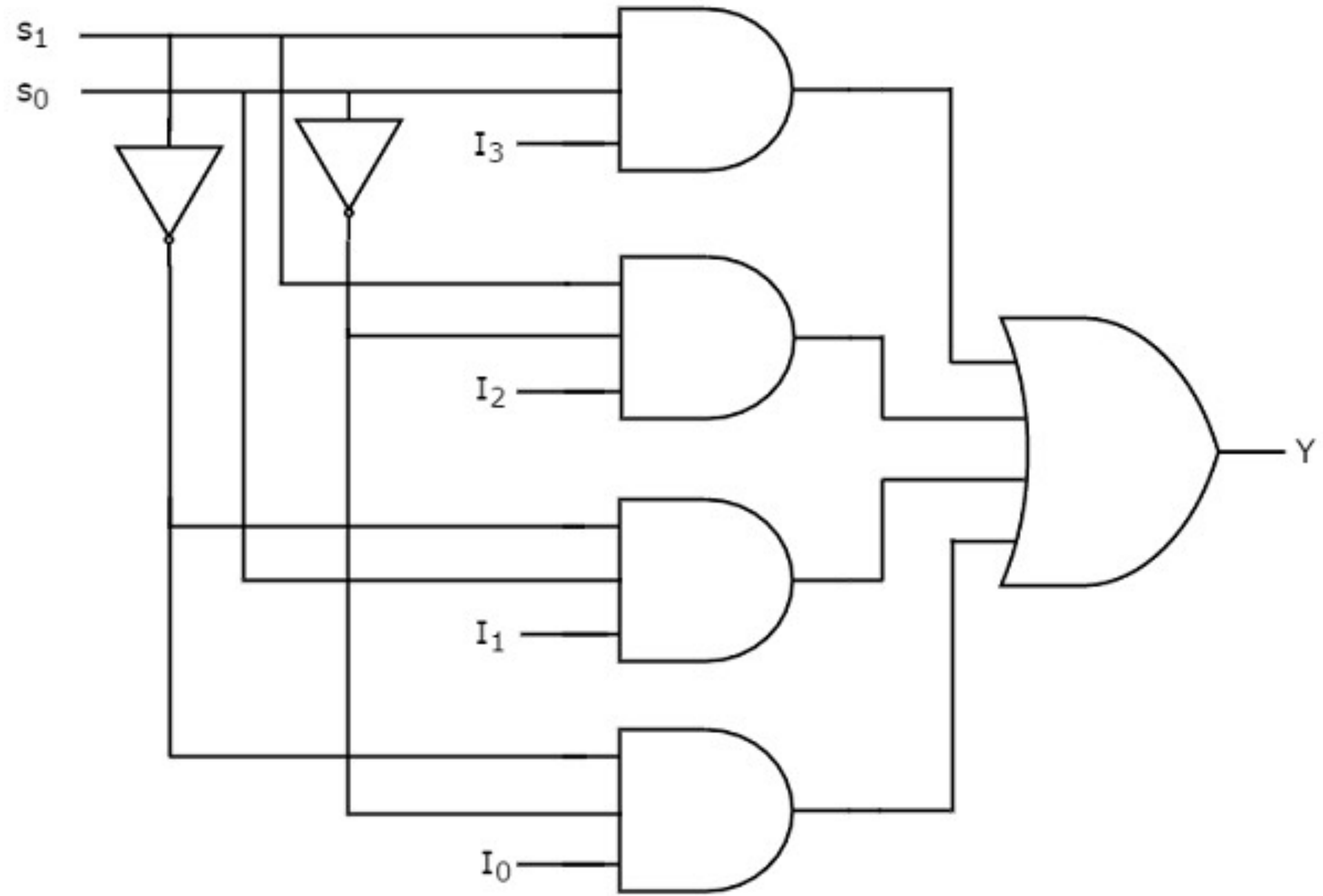


Multiplexer (MUX)

- Use input bits to select which bit to output
- Example: s_1 and s_2 are two bits, so we have $2^2 = 4$ choices between which inputs we want to display
- In general, need $\log_2(n)$ bits of input to select among n outputs



Using a MUX to create an ALU

Choose which operation we want to perform by selecting the output

