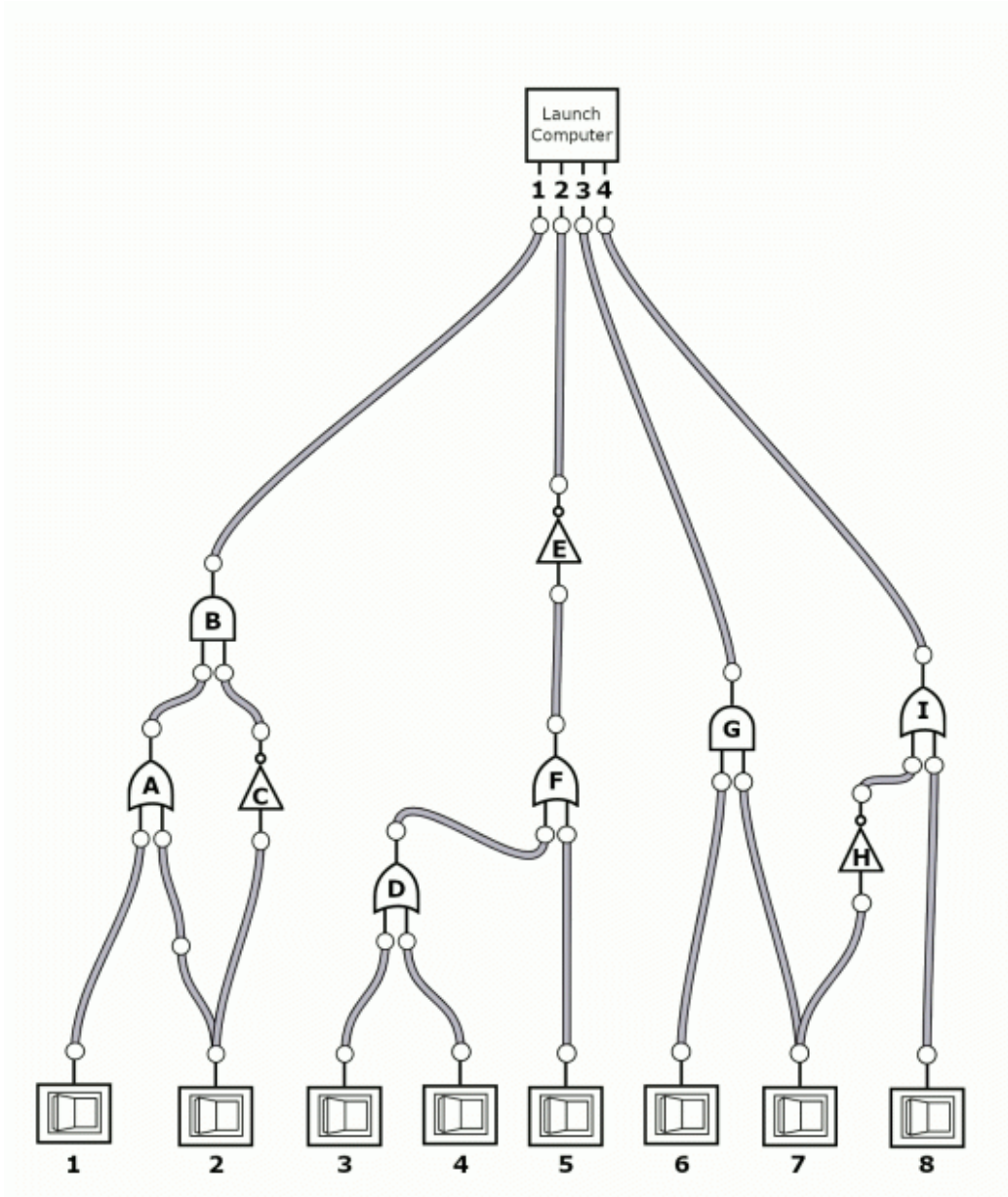


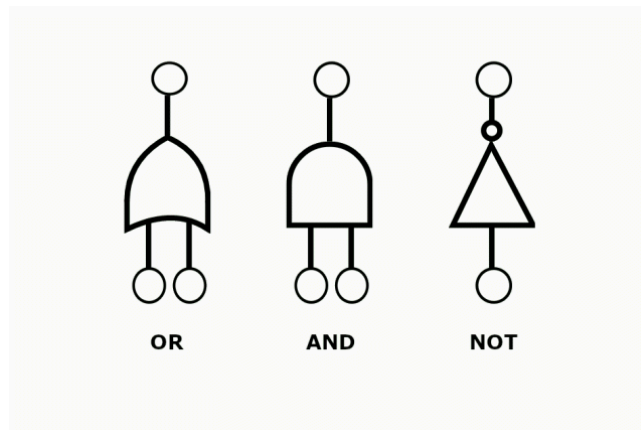
## Back To The Queer Future #8: One Giant Leap For Queerkind

Can you fix the circuit below so Sally Ride can make it into space?

The circuit has eight switches, numbered 1-8 from left to right, and all are currently switched off. When a switch is turned on, it will output power. There are wires going from the switches via various logic gates to four terminals attached to the launch computer. All four terminals must be powered on for the launch computer to work.



The circuit uses three types of logic gates that may output power depending on what inputs they receive:



- An OR gate has two inputs and one output. If either or both of those inputs are on, then the output will be on. If neither input is on, the output will be off.
- An AND gate has two inputs and one output. Both inputs must be on in order for the output to be on. If either or both inputs are off, the output will be off.
- A NOT gate has one input and one output. This gate inverts the input: if the input is on, the output will be off. If the input is off, the output will be on.

**What switches must be turned on to activate the computer?**