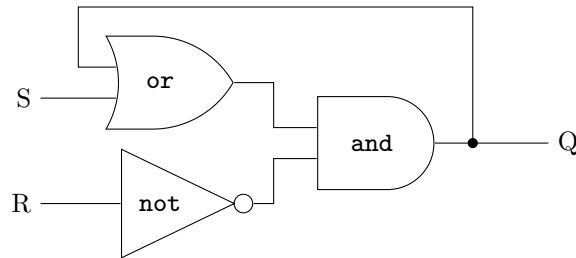

Warm-Up: Flip-Flops

Prepared by Mark on March 15, 2026.

Problem 1:

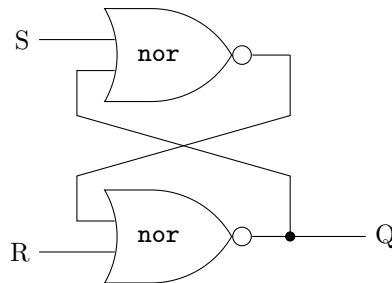
Below is a circuit of logic gates. S and R are input pins, Q is an output pin.
What does it do?



Problem 2:

Below is another circuit. How does it work?

Hint: nor = not or. It works exactly as you'd expect.



Problem 3:

Empty circles represent inverted inputs/outputs. This is the reason a nand gate looks like an and gate with a dot. Pay careful attention to the nand gate in the bottom-left.

What does this circuit do?

