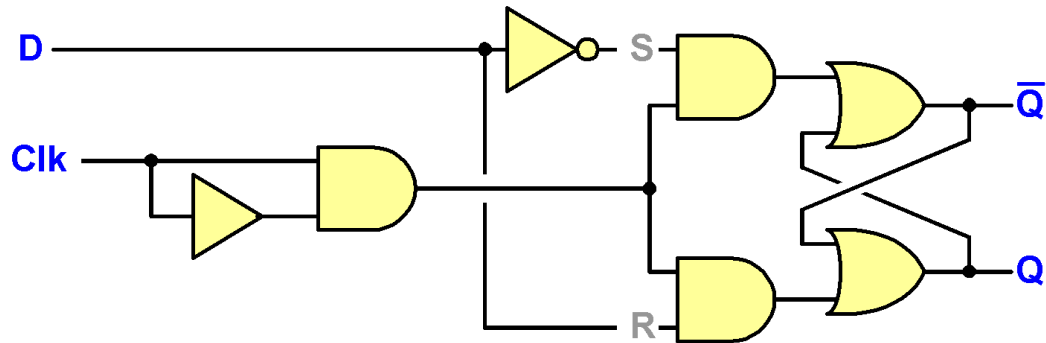
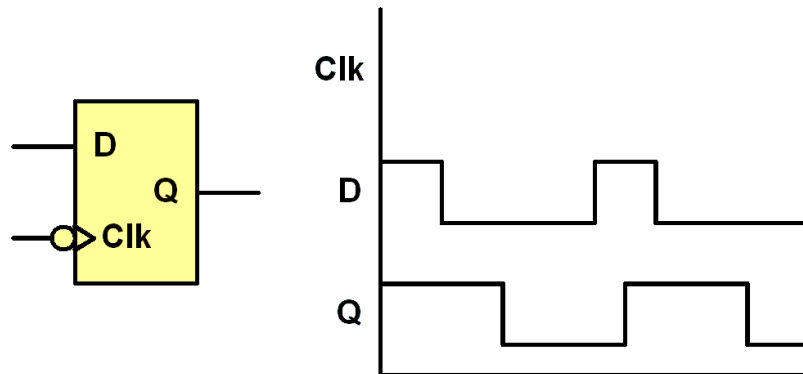


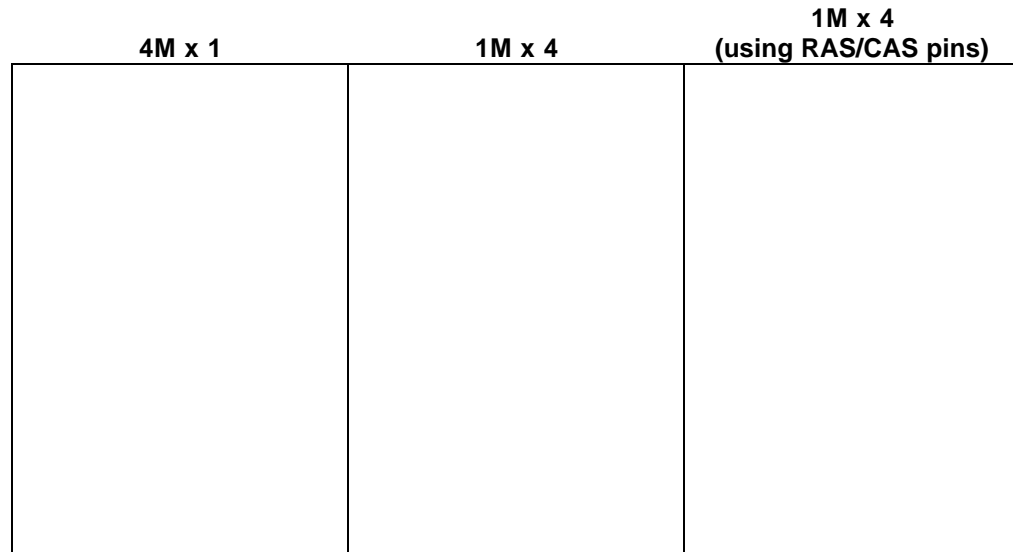
- Identify the errors in the following edge-triggered D flip-flop:



- How many transistors does it take to build an edge-triggered D flip-flop?
Assume that the number of transistors needed to build a gate is the same as the number of inputs it has.
- The timing diagram below shows the relationship between the signals for the flip/flop shown at the left. **Fill in the “Clk” signal** on the timing diagram.



4. **Draw diagrams** showing the **pins** needed for memory chips with the following organizations:



5. **What are** the two major types of RAM (Random Access Memory)?
6. **Why** is dynamic memory slow?
7. **What is the difference** between **PROM** and **EPROM**?