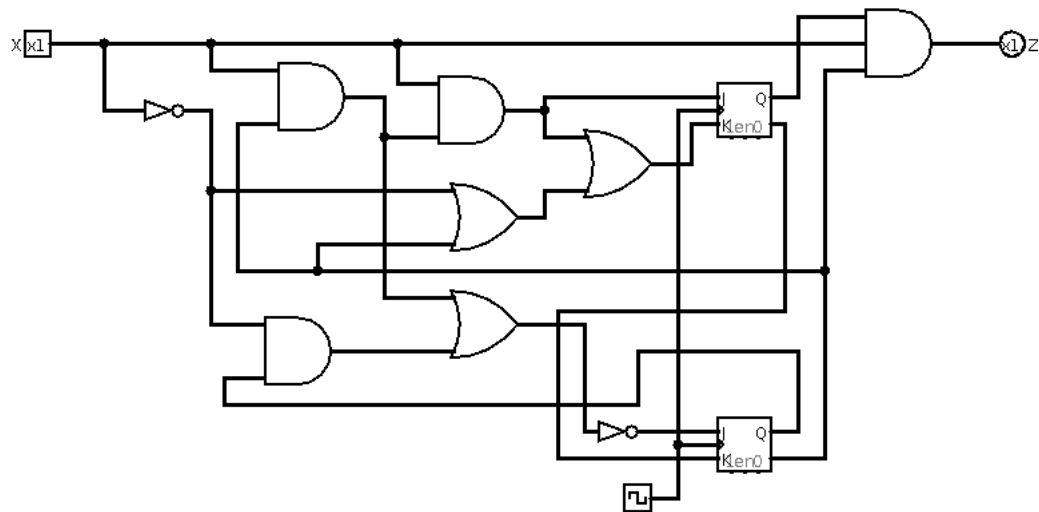


1. For the following circuit, the two flip-flops are both JK flip-flops.
  - (a) Create the transition tables for the two JK flip-flops.
  - (b) Create the transition table.
  - (c) Create the next state table.
  - (d) Create the output table.
  - (e) Create the next state/output table.
  - (f) Create the state diagram.



2. Design a sequential circuit that detects an input sequence of 1101 without overlap. Use only J-K flip-flops in your construction.