In text problem 14.8:

A sequential circuit has two inputs and two outputs. The inputs are X1 and X2 which represent a 2-bit binary number X1 X2, or N. It the present value of N on the inputs is greater than the previous input, then Z1 is a 1. It the present value of N on the inputs is less than the previous input value, then Z2 is a 1. Otherwise, both Z1 and Z2 are 0.

When the first value of inputs arrives there is no previous value so Z1 and Z2 are 0.

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FOR TURN IN

Find a Mealy state graph for the circuit with the minimal number of states. (which is 5 including the start state)