

Question: Design the state diagram for the recursive auto-associator discussed in class.

Solution: Following image contains the state diagram for the inputs S_i where $i \in \{0, 1, 2, \dots, 15\}$

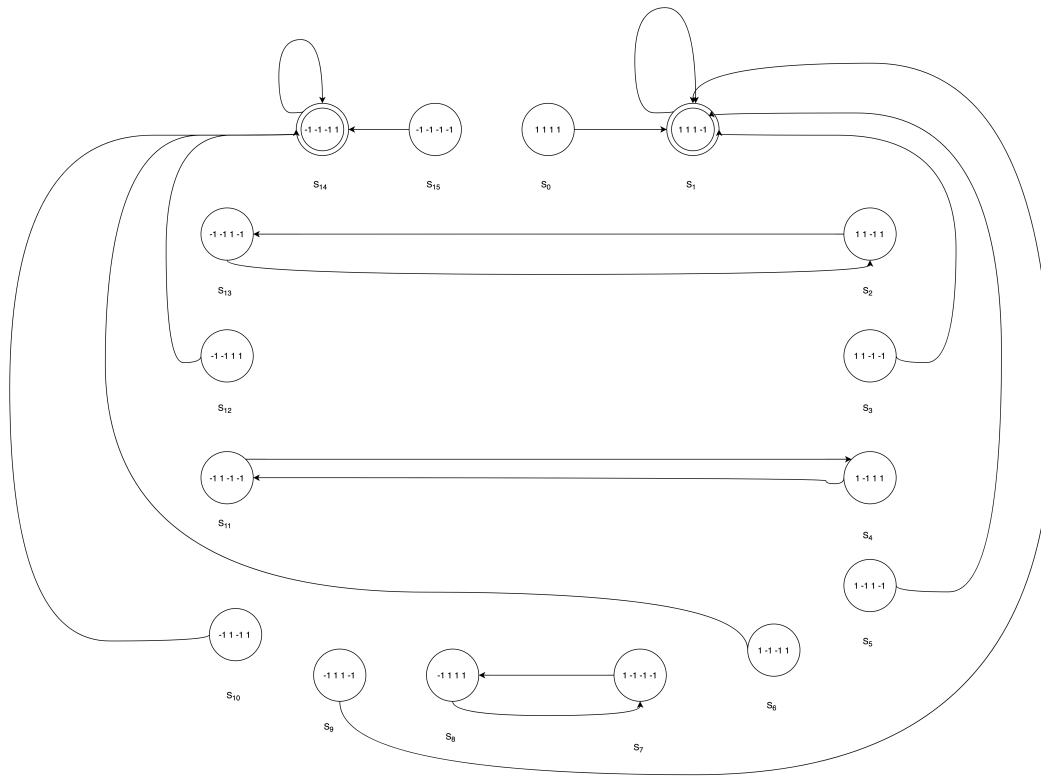


Figure 1: State Diagram

The correct outputs are S_1 and S_{14} . Rest of them are incorrect outputs and oscillate between themselves.