LE6.3

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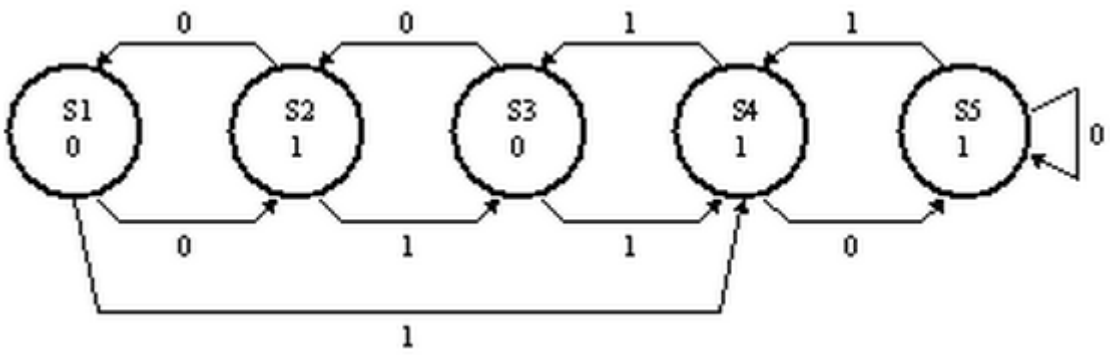
LE6.3.1 Equivalent states

1/1 point (ungraded)

Consider the following state transition diagram for an FSM with a single input and a single output.



Recall that two states are equivalent if (1) they have identical outputs and (2) for each possible combination of inputs they transition to equivalent states. Please indicate which pairs of states, if any, are equivalent:

- [ ] No states are equivalent
- [ ] S1 and S2 are equivalent
- [x] S1 and S3 are equivalent
- [ ] S1 and S4 are equivalent
- [ ] S1 and S5 are equivalent
- [ ] S2 and S3 are equivalent
- [ ] S2 and S4 are equivalent
- [ ] S2 and S5 are equivalent
- [ ] S3 and S4 are equivalent
- [ ] S3 and S5 are equivalent
- [ ] S4 and S5 are equivalent

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[STAFF] Please can you check :On a "0" input they both transition to S2, and let me know if this is correct. 2

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