Sangiorgi: Introduction to Bisimulation and Coinduction
Exercises

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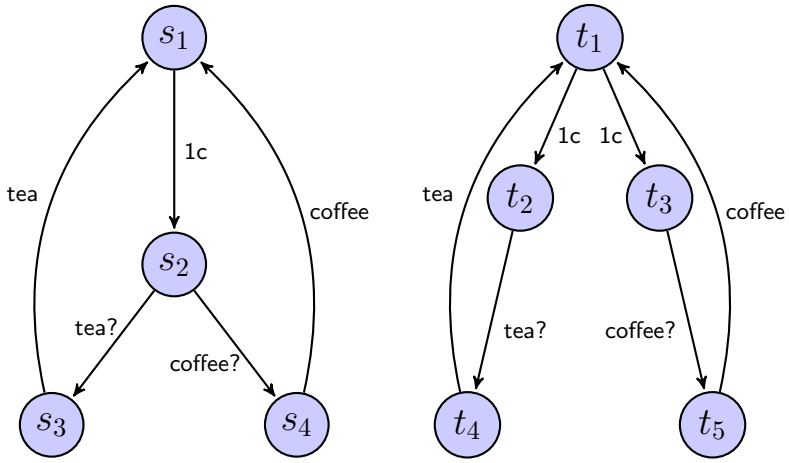
1. Show that $\sim$ is a bisimulation.
2. Show that for these coffee machines, $s_1 \sim t_1$ does *not* hold.



3. What is the largest set closed forward under these rules? What is the smallest set closed backward?

$$\frac{}{nil \in \mathcal{L}} \qquad \frac{l \in \mathcal{L} \qquad a \in A}{cons(a, l) \in \mathcal{L}}$$