Part 1 (Composition Synthesis)
Given the following target $T$ service and available services $A_1, A_2$, check whether a composition exists. If it does exist, produce the output relation of orchestrator generator. If not, single out the target state that cannot be simulated/ND-simulated, and propose a change to the available services so as to guarantee the composition.

Part 2 (Theoretical Question)
Prove that the following well-known theorem holds.

**Theorem:** If two states $s, t$ of two finite transition systems are bisimilar then they satisfy (make true) the same formulas of HenessyMilner Logic.