The following problems will be on the final examination.

1. Let L be any regular language, and let $\text{SUFF}(L)$ be the set of all suffixes of L. Prove that $\text{SUFF}(L)$ is regular.

2. Draw a transition-diagram (called "state diagram" in our textbook) for a Turing Machine that accepts $\{a^n b^n | n \geq 0\}$. (Do **not** draw a transition diagram for a PDA.)