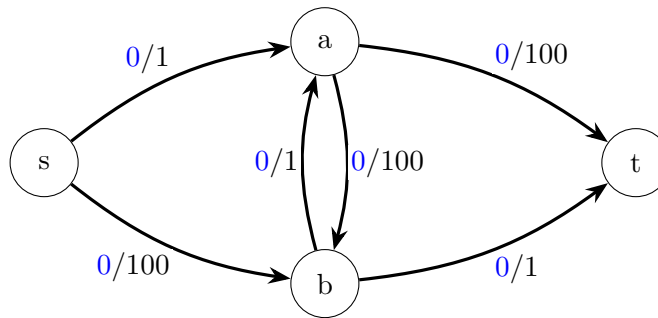# In-Class Worksheet

CS 181 Advanced Algorithms — Spring 2026

Instructions. Use the push-relabel algorithm to compute a maximum flow in G. When there are ties for which vertex or edge to process, proceed alphabetically (this is just to make the example more interesting).

Flow network G:

Apply push-relabel to find the maximum flow in G. First initialize the pre-flow, then make updates using push and relabel operations. The final flow should have value 3. Use the space below to record intermediate steps in the algorithm.