



The person-wolf-goat-cabbage problem (after Hopcroft and Ullman).

A person, wolf, goat, and cabbage are on one side of a river. There is a rowboat that can take at most two of them across at a time. However, if left alone with the cabbage, the goat will eat it, and the same for the wolf and goat. How can all four get to the other side?

Note: not all transitions are shown.