Exercise 1. Consider Example 2 in the paper by Gale and Shapley that we discussed in class today.

   a. Explain why there are a total of 24 possible sets of marriages.

   b. Choose any three sets of marriages (other than the one indicated in the example), and explain why they are unstable.

Exercise 2. Either by applying the algorithm given in the proof of Theorem 1 of the Gale and Shapley paper, or by some other means, find a stable set of marriages for the ranking matrix on page 389. If you do not use the algorithm, be sure to explain why your set is stable.