

The stable marriage problem tries to solve stability between two different, but equally sized, sets of data. Stability in this case is defined by a match's members not being able to be better off than the current match. Each element in both sets have a ordered preference list for each element in the other set. The question of whether or not it is possible to create stable marriages between the two sets is answered by the Gale- Shapely algorithm. This algorithm iterates through the different preference lists until a match is found for all elements in the sets. By having one set propose to the other and the other choose over the course of the iterations, the