$\rm EE~360C$ - Algorithms The University of Texas at Austin

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Decide whether the following statement is true or false. If it is true, give a short proof. If it is false, give a counter example.

Consider an instance of the Stable Marriage problem in which there exists a man m and a woman w such that m is ranked first on the preference list of w and w is ranked first on the preference list of m. Then in every stable matching S for this instance, the pair (m, w) belongs to S.