On completing partial Latin squares with two filled rows and at least two filled columns
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In this paper we give an alternate proof that it is always possible to complete partial Latin squares with two filled rows and two filled columns, except for a few small counterexamples. The proof here is significantly shorter than the most recent proof by Adams, Bryant, and Buchanan. Additionally, we find sufficient conditions under which a partial Latin square with two filled rows and at least three filled columns can be completed.