Almost Tilings with T-tetrominos
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A T-tetromino is a polyomino formed from four squares stuck together to form a T. It is easy to see that one can tile a 4 × 4 square with four T-tetrominos. On the other hand, Walkup showed that if n is even but not a multiple of 4, then the n × n square cannot be tiled perfectly. We show that an n × n square with n odd cannot be tiled to leave one hole.