

that the con be divided 2 K+1 2 K+1 in 4 2 X2 band. 2 | B₂ | B₂ | B₃ | B₄ WLG, assume that the removed Square is in the top left quadrant (Since we Can rotate the boards). Name the quadrant as B1, B2, B3, and B4 as suggested by The tigure above.

By the inductive step assumption, B. Can be perfectly tiled w/ triominos. To Cover the other quadrants, me first place a triominos in the center such that it Covers one square from B2,B3, and B4. Observe that due to the induction assumption, all other Squares of Be, B3, and B4 Can be Perfectly covered by triominos. Hence, We can perfectly tile a 2 x 2 board with an arbitrary squared removed, as desired