Pi Mu Epsilon Problem of the Month September 2021

In the game of chess, a rook attacks all pieces in its row and in its column. How many ways can one place the four rooks (two black and two white) on an 8 x 8 chessboard so that no two of them attack each other?

Problem of the Month Rules:

- **X** Submissions must include a complete mathematical justification along with the answer.
- **X** Submissions may only be made by individuals or groups of two and must be dated.
- H Due date: Sept 30, 2021 before 5 p.m. to Drs. Poplin, Shoenthal, Ledford, Hoehner.

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