ToT Fall 1999 J-A6 Evan Chen

Twitch Solves ISL

Episode 32

Problem

A rook is allowed to move one cell either horizontally or vertically. After 64 moves the rook visited all cells of the 8×8 chessboard and returned back to the initial cell. Prove that the number of moves in the vertical direction and the number of moves in the horizontal direction cannot be equal.

Video

https://youtu.be/JMNCvAb0CgA

External Link

https://aops.com/community/p15168247

Solution

Solution redacted because the one previously here was wrong. Don't know how to fix it.