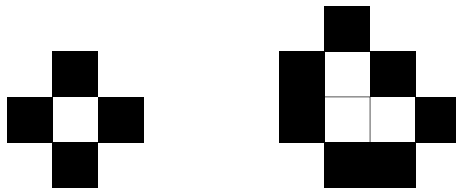# Brazil 2019/J5

Evan Chen

Twitch Solves ISL

Episode 134

Problem

The left figure below shows one white square enclosed by four black squares, while the right figure shows three white squares enclosed by seven black squares.

For $n \geq 1$, what is the maximum number of white squares that can be enclosed by n black squares?

Video

External Link

Solution

We didn't write this one up because it was way too many cases and details to consider. You have to watch the video for an outline of the solution.