

# AtCoder ARC 139E

Evan Chen

TWITCH SOLVES ISL

Episode 111

## Problem

**139E - Wazir.** We have a toroidal grid with  $2 \leq H \leq 10^5$  rows and  $2 \leq W \leq 10^5$  columns. Consider placing some number of pieces on the squares in the grid. Here, there can be at most one piece on each square, and there cannot be two pieces on adjacent squares.

Let  $L$  be the maximum number of pieces that can be placed. Find the number of ways, modulo 998244353, to place  $L$  pieces.

## Video

<https://youtu.be/duYrKINEE1Y>

## External Link

[https://atcoder.jp/contests/arc139/tasks/arc139\\_e](https://atcoder.jp/contests/arc139/tasks/arc139_e)

## Solution

[AtCoder/ARC139E.cpp](#) of [vEnhance/evan-learns-ioi](#).