Starting soon!

CCC Take-up

JFSS CS Club 2022/23
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CCC '23 S1 - Trianglane

Process

Count all possible edges (Number of filled triangles * 3)

Minus the edges that are adjacent (Left and Right)

Minus the edges that are adjacent (Top and Bottom)

Left with total amount of edges

CCC '23 S2 - Symmetric Mountains

Process

Subtask 1

O(N^3)

Nested For Loop

Outer loop: left point

Inner loop: right point

Another Nested For Loop

Loop through to find sum of absolute differences

Full Solution

O(N^2)

Two For Loops

Select a center point to expand from

Expand Outwards With Another Loop

Keep track of current sum, and use that to your advantage

CCC '23 S3 - Palindromic Poster

Process

- Impossible if: (R == N and C % 2 != 0 and M % 2 == 0) or (C == M and R % 2 != 0 and N % 2 == 0)
- Use letter “A” exclusively as column palindromes
- Use letter “B” exclusively as row palindromes except for row 1 which is represented by “A”
- Start by adding all column palindromes starting at index 0, M, 1, M - 1, 2, M - 2...
- Add row palindromes going from row 1 to row N
- Fill in remaining empty squares with random letters ensuring that no new palindromes are formed

Thanks!

Any questions?