

PROBLEM:

An $N \times N$ matrix is called K -strange if all its elements are distinct numbers from 1 to N , and $(A_{i,j} - A_{j,i})$ is a multiple of K for all (i, j) .

Let M_N be the largest number such that there exists a M_N -strange $N \times N$ matrix.

You're given a matrix A with some elements missing.

Find the number of ways to fill in the missing elements such that the resulting matrix is M_N -strange.

EXPLANATION:

There's a lot of stuff going on in the statement, so a good first step is to take things one at a time.

Our solution process can be broken up into three steps:

- First, find M_N for a given N .
- Second, characterize all M_N -strange matrices.
- Finally, find out how many of them can be obtained from A .

▼ Finding M

We want to find the largest integer for which there exists a strange matrix.

Suppose we fix K . When can there be a K -strange matrix?

Notice that:

- $A_{1,2}$ and $A_{2,1}$ should be the same, modulo K . This means $A_{1,2} - A_{2,1}$ must be a multiple of K . Since they must be distinct integers, their values must differ by at least K - that is, $\min(A_{1,2}, A_{2,1}) + K \leq \max(A_{1,2}, A_{2,1})$.

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