Carlos Sampedro Menéndez 288764.

Defence:

To change the mínimum value I just changed the constants minNum and maxNum on NumericSquareSolver that were set to 0 and 9, now to -5 and 5.

In order to check if the diagonal summed 0, I created a isValidDiagonal method, that receives the substituted matrix and checks if the sum of its diagonal values is 0.

|  |  |  |  |
| --- | --- | --- | --- |
| Test | One solution(time ms) | One solution(time ms) | Solutions found |
| Test00 | 2 | 3 | 1 |
| Test01 | 4 | 14 | 1 |
| Test02 | 123 | 98504 | 1909 |

I got more solutions than expected for test02, I tried using a hashset to see if they were repeated values, however they weren’t.

I had

5 3 2 -4

2 -3 1 2

-2 -3 -1 5

5 -5 3 -1 as a solution, it comes out as the last one.

It is incorrect for the last 2 columns and rows for 1 unit, in all cases, the only think It can be, is when I try doing the pruning on I maybe made some mistakes when doing the I and js, so maybe I tried doing the column or the row validation with the other method (checking a row for a column, or vice versa) or with a wrong index. The other possibility is either when handling a division where a % b !=0 or b==0, which I made them return a high value for it not to be a valid solution.

Other than that I had already checked the isValidRow and isValidColumn methods, so I don’t think the problem would be there.