# **Problem**

Given a square matrix, calculate the absolute difference between the sums of its diagonals. For example, the square matrix is shown below:

- 1 2 3
- 4 5 6
- 9 8 9

The left-to-right diagonal = 1 + 5 + 9 = 15. The right to left diagonal = 3 + 5 + 9 = 17. Their absolute difference is |15 - 17| = 2.

# **Assignment**

Create a program that solves the problem above. You can choose the programming language and framework you like. There are no constraints on the user interface.

### Input

A single integer n, representing the number of rows and columns in the matrix .

n enumerations of n integers. Each enumeration describes a row. These integers must be between -100 and 100.

# Output

The absolute difference between the sums of the matrix's two diagonals as a single integer.

# **Sample Input**

1124

456

108-12

# **Sample Output**

15