Given a square matrix, calculate the absolute difference between the sums of its diagonals.

For example, the square matrix arr is shown below:

123 4 5 6

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.

### **Function description**

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Complete the diagonal Difference function in the editor below.

diagonalDifference takes the following parameter:

- int arr[n][m]: an array of integers
- Return

· int: the absolute diagonal difference

The first line contains a single integer, n, the number of rows and columns in the square matrix arr.

# Each of the next n lines describes a row, arr[i], and consists of n space-separated integers arr[i][j].

**Input Format** 

Constraints

## • $-100 \le arr[i][j] \le 100$

## **Output Format**

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

# Sample Input



The secondary diagonal is:

Sum across the primary diagonal: 11 + 5 - 12 = 4

5 10

Sum across the secondary diagonal: 4 + 5 + 10 = 19

Difference: |4 - 19| = 15

Note: |x| is the absolute value of x