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 = . The right to left diagonal = . Their absolute difference is .

Function description

Complete the function in the editor below.
diagonalDifference takes the following parameter:
int arr[n][m]: an array of integers
Return
int: the absolute diagonal difference

Input Format

The first line contains a single integer, , the number of rows and columns in the square matrix .
Each of the next lines describes a row, , and consists of space-separated integers .

Output Format

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

Sample Input

3
11 2 4
4 5 6
10 8 -12
Sample Output

15
Explanation

The primary diagonal is:

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

The secondary diagonal is:

    4
  5
10
Sum across the secondary diagonal: 4 + 5 + 10 = 19
Difference: |4 - 19| = 15

Note: |x| is the absolute value of x