





Problem Submissions Leaderboard Editorial △

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

For example, the square matrix arr is shown below:

1 2 3

4 5 6

989

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**

Complete the *diagonalDifference* 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, 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].

#### 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

```
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
```

```
Change Theme Language Python 3
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    #!/bin/python3
1
2
    import math
4
    import os
    import random
    import re
    import sys
    # Complete the 'diagonalDifference' function below.
11
    # The function is expected to return an INTEGER.
    # The function accepts 2D_INTEGER_ARRAY arr as parameter.
14
```



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