Diagonal Difference ★



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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

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.

Function description

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

Input Format

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

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

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

10 8 -12

15

Explanation

The primary diagonal is:

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

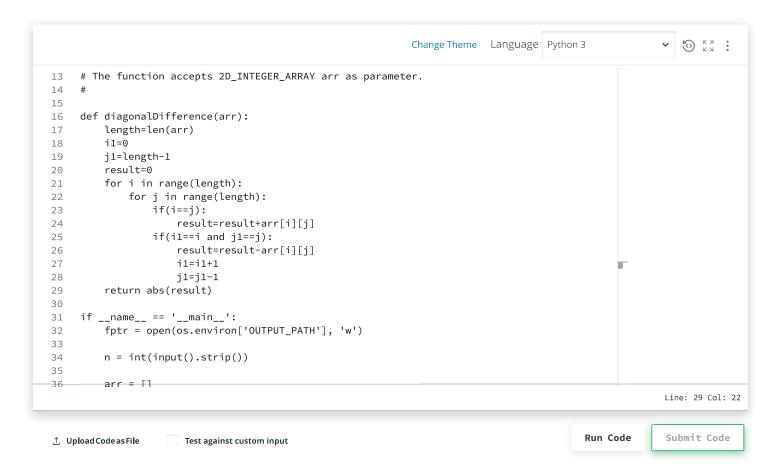
The secondary diagonal is:

4
5
10

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

Difference: |4 - 19| = 15

Note: |x| is the absolute value of x
```



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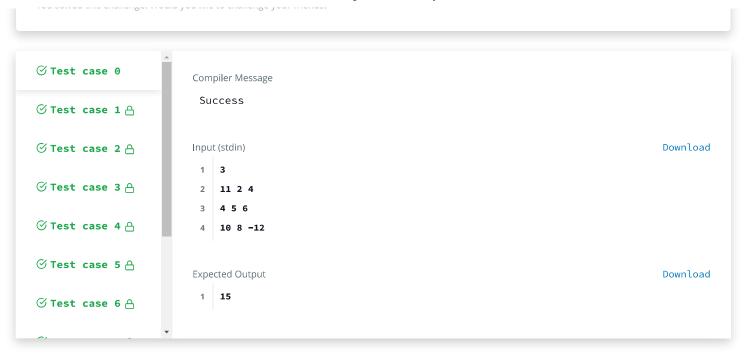


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