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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 diagonalDifference function in the editor below. It must return an integer representing the absolute diagonal difference.

diagonalDifference takes the following parameter:

• arr: an array of integers .

Input Format

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

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

Constraints

•
$$-100 \leq arr[i][j] \leq 100$$

Output Format

Print 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:

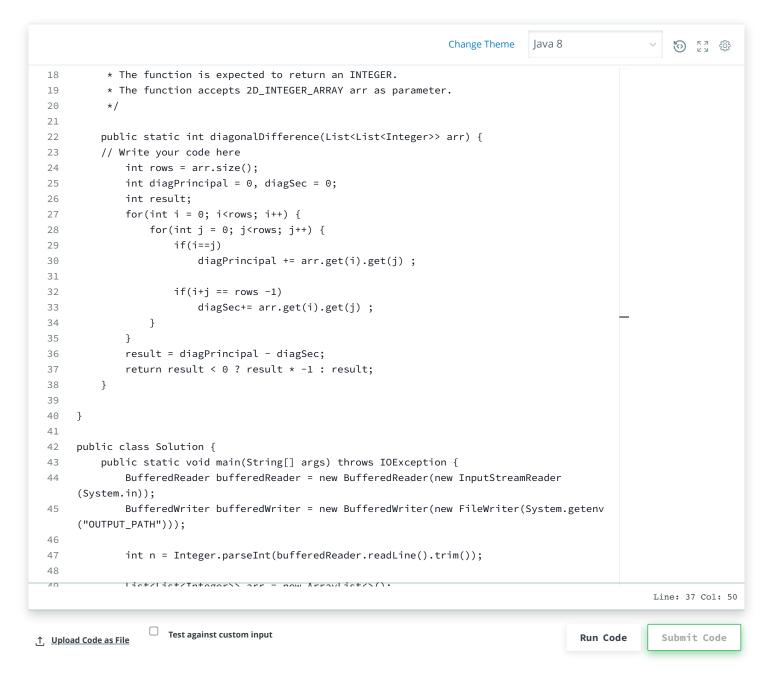
11 5 -12

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

The secondary diagonal is:



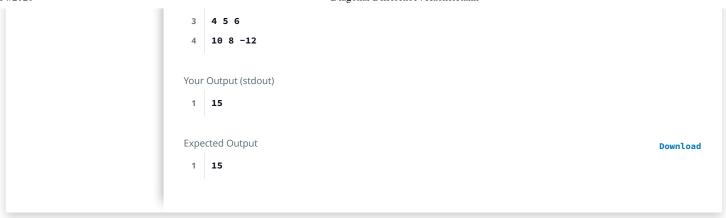
```
Sum across the secondary diagonal: 4 + 5 + 10 = 19
Difference: |4 - 19| = 15
Note: |x| is the absolute value of x
```



Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.





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