



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

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 diagonal Difference 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, n, the number of rows and columns in the 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

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 -12

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

The secondary diagonal is:

10

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

Difference: |4 - 19| = 15

Note: |x| is the absolute value of x

vatsalchanana Difficulty Max Score 10 Submitted By 817225

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```
Change Theme
                                                        Java 8
                       Stream.of(bufferedReader.readLine().replaceAll("\\s+$", "").split("
   ⊟ "))
 42
                           .map(Integer::parseInt)
                           .collect(toList())
 43
 44
                   );
                } catch (IOException ex) {
 45 ⊟
                  throw new RuntimeException(ex);
 46
 47
 48
            });
 49
             int result = Result.diagonalDifference(arr);
             bufferedWriter.write(String.valueOf(result));
             bufferedWriter.newLine();
 54
             bufferedReader.close();
 56
             bufferedWriter.close();
 58
 59
                                                                            Line: 59 Col: 1
Submit Code
                                                               Run Code
```

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