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

Program:

size = int(input())

matrix = []

left\_diagonal\_sum = 0

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for i in range(0,size):

    a = [int(x) for x in input().split(" ")]

    matrix.append(a)

for i in range(0, size):

    for j in range(0,size):

        if i == j:

            left\_diagonal\_sum = left\_diagonal\_sum + matrix[i][j]

for i in range(0,size):

    for j in range(0,size):

        if (i+j) == (size-1):

            right\_diagonal\_sum = right\_diagonal\_sum + matrix[i][j]

print(abs(left\_diagonal\_sum - right\_diagonal\_sum))