

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

## Function Description

Complete the function which is described by the below signature:

```
integer diagonalDifference(2D_integer_array a) {  
    # Return the absolute difference between the diagonal sums  
}  
a: 2D array of elements in the matrix
```

## Constraints

- $-100 \leq \text{Elements in the matrix} \leq 100$

## Raw Input Format

The first line contains a single integer,  $n$  denoting the number of rows and columns in the matrix  $a$ .

The next  $n$  lines denote the matrix  $a$ 's rows, with each line containing  $n$  space-separated integers describing the columns.

## Sample Input 0

```
3  
11 2 4  
4 5 6  
10 8 -12
```

## Sample Output 0

```
15
```

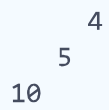
## Explanation 0

The primary diagonal is:

```
11  
 5  
 -12
```

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

The secondary diagonal is:



A 3x3 matrix with values 4, 5, 10 on the secondary diagonal.

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

Difference:  $|4 - 19| = 15$

**Note:**  $|x|$  is the [absolute value](#) of  $x$