Diagonal Difference



Given a square matrix of size $N \times N$, calculate the absolute difference between the sums of its diagonals.

Input Format

The first line contains a single integer, N. The next N lines denote the matrix's rows, with each line containing N space-separated integers describing the columns.

Output Format

Print the absolute difference between the two sums of the matrix's diagonals as a single integer.

Sample Input

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

Sample Output

15

Explanation

```
The primary diagonal is:
```

```
11
5
-12
```

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

The secondary diagonal is:

```
5

10

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

Difference: |4 - 19| = 15
```