Mock CCC '18 Contest 3 J4/S2 - A Median Problem

Time limit: 1.0s   **Memory limit:** 1G

Given N sequences of N integers, compute the median of the medians of the N sequences.

Constraints

$1 \le N \le 99$

N is odd.

Every integer in any of the sequences is between 1 and 10^6.

Input Specification

The first line contains a single positive integer, N.

Each of the next N lines contains exactly N positive integers, the N integers in one of the sequences.

Output Specification

Output, on a single line, the median of the medians of the N sequences.

Sample Input

```
3
1 2 3
4 5 6
7 8 9
```

Sample Output

```
5
```