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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# B. Optimal Point on a Line

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

You are given n points on a line with their coordinates  $X_j$ . Find the point X so the sum of distances to the given points is minimal.

# Input

The first line contains integer  $n (1 \le n \le 3 \cdot 10^5)$  — the number of points on the line.

The second line contains n integers  $x_i$  ( -  $10^9 \le x_i \le 10^9$ ) — the coordinates of the given n points.

#### **Output**

Print the only integer X — the position of the optimal point on the line. If there are several optimal points print the position of the leftmost one. It is guaranteed that the answer is always the integer.

# Example

Example		
input		
4		
1234		
output		
2		

# **Educational Codeforces Round 16**

## **Finished**

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