

Find the Median

Time limit: 1 seconds

Given a list of numbers, can you find the median?

Input

There will be two lines of input:

- n – the size of the array
- ar – n numbers that makes up the array
- $1 \leq n \leq 1000001$
- n is odd
- $-100000 \leq x \leq 100000, x \in ar$

Output

Output one integer, the median.

Sample Input

7
0 1 2 4 6 5 3

Sample Output

3