L   Lots of Liquid

Time limit: 1s

You work at a warehouse that sells chemical products, where somebody just placed an order for all the Boron Acetate Phosphoric Carbonate (BAPC) that you have in store. This liquid is stored in many separate lots, in cube-shaped containers, but your client requires the order to be delivered in a single cube-shaped container that fits all the BAPC liquid perfectly. What should be the size of this container?

Some of the cube-shaped containers.
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Input

The input consists of:

- One line with an integer n ($1 \le n \le 10^5$), the number of cube-shaped containers that you have in store.

- One line with n floating-point numbers c ($1 \le c \le 10^9$), the length of one of the sides for each of these containers.

Output

Output the length of one of the sides of the cube-shaped container that will contain all the BAPC liquid.

Your answer should have an absolute or relative error of at most 10^{-6}.

Sample Input 1	Sample Output 1
3 21 28 35	42

Sample Input 2	Sample Output 2
3 22.10 2022 1337	2200.6131345362505

Sample Input 3
3 1.41421356 2.718281828 3.1415926535

Sample Output 3
3.777901284526486