Biggest volume

We have N cubes in a building game.

Write a program that gives the volume of the biggest object that can be built from the cubes.

Input

The first line of the standard input contains the count of cubes ($1 \leq N \leq 100$). The next N lines contain each the length of the side of a cube ($1 \leq L \leq 100$).

Output

The first line of the standard output should contain the biggest possible volume.

Example

Input	Output
3	99
2	
3	
4	