Multiple Clocks

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We have N clocks. The hand of the i-th clock ($1 \leq i \leq N$) rotates through 360 degrees in exactly T_i seconds.

Right now the hand of every clock is pointing directly upward. In how many seconds we will see this phenomenon again?

Constraints

- $1 \leq N \leq 100$
- $1 \leq T_i \leq 10^{18}$
- All input values are integers.
- The correct answer is at most 10^{18} seconds.

Input

Input is given from Standard Input in the following format:

N
T_1
:
T_N

Output

Print the number of seconds after which the hand of every clock point directly upward again.

Example

Input	Output
2 2 3	6
5 2 5 10 1000000000000000000 1000000000000000000	1000000000000000000