
Least common multiple**P96564_en**

Write a program such that, given n strictly positive natural numbers $x_1 \dots x_n$, prints their least common multiple greater than zero.

Input

Input consists of several cases. Each case begins with a number $n \geq 1$, followed by $x_1 \dots x_n$. A special case with $n = 0$ marks the end of input.

Output

For every case, print in a line the least common multiple greater than zero of $x_1 \dots x_n$. For the given cases, this number will always be between 1 and 10^9 .

Sample input 1

```
3 14 4 5
1 7
2 18 18
2 2000000 3000000
0
```

Sample output 1

```
140
7
18
6000000
```

Problem information

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