# Telerik Software Academy 2011 / 2012 – C# Fundamentals Part 1 – Test Exam

## Problem 2 – Least Majority Multiple

Given five positive integers, their least majority multiple is the smallest positive integer that is divisible by **at least** **three** of them.

Your task is to write a program that for given distinct integers **a**, **b**, **c**, **d** and **e**, returns their least majority multiple.

For example if we have 1, 2, 3, 4 and 5 the majority multiple of the given five numbers is 4 because it is divisible by 1, 2, and 4.

Another example: if we have 30, 42, 70, 35 and 90 the answer will be 210, because it is divisible by 30, 42, 70, and 35 - four out of five numbers, which is a majority.

### Input

The input data is being read from the console.

The input data will consist of 5 lines.

The numbers **a**, **b**, **c**, **d** and **e** will each be on a single line.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output data must be printed on the console.

On the only output line you must print the least majority multiple of the given numbers.

### Constraints

* **a**, **b**, **c**, **d** and **e** will each be integer numbers between 1 and 100, inclusive.
* **a**, **b**, **c**, **d** and **e** will be distinct.
* Allowed working time for your program: 0.25 seconds.
* Allowed memory: 16 MB.

### Examples

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| **Input Examples** | **Output Examples** |
| 1  2  3  4  5 | 4 |
| 30  42  70  35  90 | 210 |