

# Orasi Monthly Code Challenge

Silver League

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*October 2013*

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*Challenge Due Date:*  
**10/31/13**

# October 2013 Orasi Code Challenge - Silver

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## Challenge Description

The Greatest Common Divisor (GCD) of a given set of integers is the largest positive integer that can divide these integers with any remainder. For an example we consider the values 8 and 12. 8 has divisors 1, 2, and 4 (the only values that can divide 8 with no remainder) while 12 has divisors 1, 2, 3, 4, and 6. Since 4 is the largest number in both of these sets it is the greatest common divisor. In this example we found the GCD of two integers, but this idea can be expanded to an arbitrary set of numbers. The Silver League Orasi Code Challenge for October 2013 is to find the greatest common divisor for a set of integers.

## Submission Requirements:

Your function should accept one input, an array containing the set of numbers. The function should output a single value (an integer) that is the GCD of the numbers in the array. The function must comply with Orasi Coding Standards. You will be allowed 1 minute of execution time to accomplish this task. Anyone who successfully returns the correct response will be considered to have completed the challenge. A winner will be announced based on conformity to coding standards, efficiency, and creativity.

## Winning Solution:

\*\*\*\*\* Future Home of the winning solution \*\*\*\*\*