File:GCD-for-infinite-sets htm.pdf

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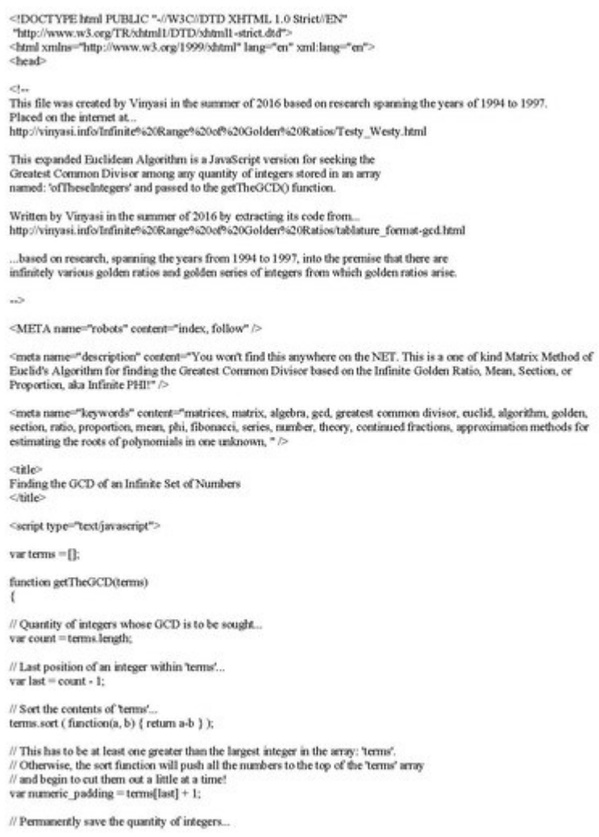

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>

<!--
This file was created by Vinyasi in the summer of 2016 based on research spanning the years of 1994 to 1997.
Placed on the internet at...
http://vinyasi.info/Infinite%20Range%20of%20Golden%20Ratios/Testy_Westy.html

This expanded Euclidean Algorithm is a JavaScript version for seeking the
Greatest Common Divisor among any quantity of integers stored in an array
named: 'ofTheseIntegers' and passed to the getTheGCD() function.

Written by Vinyasi in the summer of 2016 by extracting its code from...
http://vinyasi.info/Infinite%20Range%20of%20Golden%20Ratios/tablature_format-gcd.html

...based on research, spanning the years from 1994 to 1997, into the premise that there are
infinitely various golden ratios and golden series of integers from which golden ratios arise.

-->

<META name="robots" content="index, follow" />

<meta name="description" content="You won't find this anywhere on the NET. This is a one of kind Matrix Method of
Euclid's Algorithm for finding the Greatest Common Divisor based on the Infinite Golden Ratio, Mean, Section, or
Proportion, aka Infinite PHI!" />

<meta name="keywords" content="matrices, matrix, algebra, gcd, greatest common divisor, euclid, algorithm, golden,
section, ratio, proportion, mean, phi, fibonacci, series, number, theory, continued fractions, approximation methods for
estimating the roots of polynomials in one unknown, " />

<title>
Finding the GCD of an Infinite Set of Numbers
</title>

<script type="text/javascript">

var terms = [];

function getTheGCD(terms)
{

// Quantity of integers whose GCD is to be sought...
var count = terms.length;

// Last position of an integer within 'terms'...
var last = count - 1;

// Sort the contents of 'terms'...
terms.sort ( function(a, b) { return a-b } );

// This has to be at least one greater than the largest integer in the array: 'terms'.
// Otherwise, the sort function will push all the numbers to the top of the 'terms' array
// and begin to cut them out a little at a time!
var numeric_padding = terms[last] + 1;

// Permanently save the quantity of integers...
```

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Size of this JPG preview of this PDF file: 463 × 599 pixels. Other resolutions: 185 × 240 pixels | 371 × 480 pixels | 593 × 768 pixels | 1,275 × 1,650 pixels.

Original file (1,275 × 1,650 pixels, file size: 50 KB, MIME type: **application/pdf** , 3 pages)

File information Structured data

Captions Edit

English JavaScript code for finding the GCD among a set of integers which is greater than a pair.

Summary [edit]

Description	**English:** This PDF contains the HTML code for a webpage which will simultaneously calculate the GCD from a set of integers more numerous than a pair. It was derived from discovering the Infinite Range of Golden Ratios over twenty years ago.
Date	1 July 2016
Source	Own work
Author	Vinyasi

Licensing [edit]

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File history

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	Date/Time	Thumbnail	Dimensions	User	Comment
current	**08:25, 5 January 2023**		1,275 × 1,650, 3 pages (50 KB)	Vinyasi (talk | contribs)	Uploaded own work with UploadWizard

You cannot overwrite this file.

File usage on Commons

The following page uses this file:

- File:GCD Demonstration for Infinite Sets of Integers in Tablature Format driven by PHP.pdf

File usage on other wikis

The following other wikis use this file:

- Usage on en.wikipedia.org
  - Talk:Euclidean division

Metadata

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