Cohort Exercise 5

100 Points

(20 points) Question 1:

Write a javascript function to compute the greatest common divisor between two integers a and b.

Call your function gcd(a, b), in a file called esc-cohort5.js.

(20 points) Question 2:

Write a javascript function that parses a CSV file and returns an array containing every line of the CSV file, itself stored as an array.

Example input:
Participant,Name,Score
P1,Simon,5

Expected output:
[[“Participant”, “Name”, “Score”], [“P1”, “Simon”, “5”]]

Call your function parseCSV(csvfile) in a file called esc-cohort5.js. Do not use any built in function that automatically parses a CSV file.

(20 points) Question 3:

Implement a quicksort function in javascript. More about quicksort:
https://en.wikipedia.org/wiki/Quicksort

Call your function quicksort(arr) in a file called esc-cohort5.js.

(40 points) Question 4:

Write the code for a Node.js server. This server should listen on a port of your choice and be able to display the following three pages:

1. /index.html
2. /about.html
3. /contact.html

Each page should contain HTML code, including a header and body.
The body should contain text formatted (with some css). In addition: about should contain an image, and contact a link to an email (mailto:yourown@emailaddress.com [use your own address, please])
Any other incorrect request should be handled by sending a **404 page** (with HTML code).
Name your file node-app-esc.js. You may use express if you wish but do not have to.