Eduin (Stay) Sparks Lab 02 - Euclid Comparison Count Sort

a) find gcd (31415, 14142) by applying Enclid algorithm Iterations Quotient 2 Remainder 31415 14142 3131 14142 1618 3131 1513 3131 1618 1618 1513 105 105 1513 43 43 105 43 19 5 19 5 10 (1) Final Result: g.c.d=1 Number of Iterations: 10

ged (31415, 14142) via Euclid's us. Consecutive int. Consecutive Integer: E = min 14142 -> 1 = 14142 interations

b) Estimate how many times faster it will be to find

Euclid Algorithm: = 10 interations => 10 = faster

c) Solve the same problem by finding the prime factors

Consider, Sieve Algorithm 31415 = 5,61,103,1

14142 = 2,3,2357,1

9.c.d = 1





