COEN 10 – Quiz I

10/2/15

USE pseudo-code or PHP.

1. (20 points) Given three number, x,y, and z, received as input, write the code to output “yes” if x is equal to y-z or “no” otherwise.

x = input

y = input

z = input

if x = y-z

output “yes”

else

output “no”

end if

1. (20 points) Write the code to output the difference between x and y (both received as input) if they are different, or the sum, if they are the same.

x = input

y = input

if x>y

output x-y

if y>x

output y-x

if ($x==$y)

echo $x+=$y

1. (30 points) Assuming a sequence of integer numbers, from x to y (received as input), where x<y, write the code to output the sum of all the numbers between x and y (including x and y) that divides y. Extra credit if you do it efficiently!

x = input

y = input

sum = 0

for i = x to y

if y % i == 0

sum += i

end for

output sum

1. (30 points) Assuming a sequence of integer numbers, from x to y (received as input), where x<y, write the code to output the numbers between x and y (including x and y) that are smaller than z (also received as output). Extra credit if you do it efficiently!

x = input

y = input

z = input

if z>y

for i = x to y

output i

else if y>z && z>x

for i = x to z

output i

end for

end if

