COEN 10 – Quiz II

10/5/15

Use PHP! (it’s extremely helpful to draw graph before you write the code)

1. (25 points) Write the loop to search and output the first even number in array $x or “no” if no even number was found. Assume the size of array $x is given by $size.

<?php

$x = array ();

$size = count($x);

for ($i=0; $i<$size; $i++)

{

if ($x[$i]%2==0)

{

echo “$x[$i]”;

break:

}

}

if ($i == $size)

echo “no”;

?>

1. (25 points) Write a loop to initialize array $x with the following pattern: <0,1,0,1,0,1,0,1,0, …>. Assume the size of array $x is a multiple of 2 and given by $size.

<?php

$x = array ();

$size = count($x);

for ($i=0; $i<$size; $i+=2)

{

$x[$i] = 0;

$x[$i+i] = 1;

}

?>

1. (25 points) Write a loop to count the number of elements in array $x that are greater than 200 and less than 400. Assume the size of array $x is given by $size.

<?php

$x = array();

$size = count($x);

$counter=0;

for ($i=0; $i<$size; $i++)

{

if ($x[$i]>200 && $x[$i]<400)

{

$counter++;

}

}

?>

1. (25 points) Write a loop to calculate the average of the last 10 elements of array $x. Assume the size of array $x is given by $size, and the array has more than 10 elements.

<?php

$x = array();

$size = count($x);

$sum = 0;

$average = 0;

for ($i=0; $i<$size; $i++)

{

if ($i>=$size-10)

{

$sum+=$x[$i];

}

}

$average = $sum/10;

?>

