

COEN 10 - Practice II

Solutions on Wednesday

Use PHP.

1. Write the code to count the number of elements between \$x and \$y.

```
1.
$count=0;
$size=count($y);
for($i=0;$i<$size;$i++)
    if ($y[$i]>100 && $y[$i]<1000)
        $counter++;
```

2. Write the code to calculate the average of the numbers in array \$z, which has 100 elements.

```
2.
$sum=0;
$average=0;
for($i=0;$i<100;$i++)
    $sum+=$z[$i];
$average=$sum/100
```

3. Write the code to add the corresponding elements of \$x and \$y, and place the result into the corresponding spot in array \$z.

```
3.
$size=count($x);
for($i=0;$i<$size;$i++)
    $z[$i]=$x[$i]+$y[$i];
```

4. Write the code to initialize an array in such a way that each element is its corresponding index: \$x[0] = 0; \$x[1] = 1, ...

```
4.
$size=count($x);
for($i=0;$i<$size;$i++)
    $x[$i]=$i;
```

5. Write the code to search for an element in an array.

```
5.
$size=count($x);
$f=0;
for($i=0;$i<$size;$i++)
{
    if($x[$i]==$value)
    {
        $f=1;
        echo "yes";
        break;
    }
}
if ($f==0) (or if($i==$size))
    echo "no";
```

6. Write the code to count how many times a value is in an array.

```
6.
$size=count($x);
$counter=0;
for($i=0;$i<$size;$i++)
    if($x[$i]==$value)
        $counter++;
```

7. Write the code to find matches (in the same spot) between two arrays.

```
7.
$size=count($x);
$counter=0;
for($i=0;$i<$size;$i++)
    if($y[$i]==$x[$i])
        $counter++;
```

8. Write the code to find matches (not in the same spot) between two arrays.

```
8.
$size1=count($x);
$size2=count($y);
$counter=0;
for($i=0;$i<$size1;$i++)
    for($j=0;$j<$size2;$j++)
        if($x[$i]==$y[$j])
            $counter++;
```

in another case, if you are saying "yes" or "no", and stop once the right match is found

```
$size1=count($x);
$size2=count($y);
for($i=0;$i<$size1;$i++)
    for($j=0;$j<$size2;$j++)
        if($x[$i]==$y[$j])
            echo "yes";
if $i==$size1;
break;
```