

Midter #1 - Test

Due Feb 27 at 11:59pm**Points** 10**Questions** 4**Time Limit** None

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	28 minutes	4 out of 10 *

* Some questions not yet graded

Score for this quiz: **4** out of 10 *

Submitted Feb 27 at 6:43pm

This attempt took 28 minutes.

Question 1

0 / 2 pts

Please the sentences below that describes errors or bad habits in the following code. Select all that apply.

```
<?php
    $temp = "4";
    echo useful_increment($temp);

    function useful_increment($x)
    {
        if (++$x == 10)
            return $x;
    }
?>
```

ou Answered



unary increment should not be used within other statements/expressions



\$temp contains a string



\$temp cannot be accessed within the scope of the function

☐ the function must be declared before being called

orrect Answer

☐ the code should not contain magic constants

Question 2

2 / 2 pts

Please the sentences below that describes errors or bad habits in the following code. Select all that apply.

```
<?php
    $x = "3"
    echo half_value_computer();

    function half_value_computer()
    {
        return $x/2;
    }
?>
```

Correct!

☒ \$x cannot be accessed within the scope of the function

☐ \$x contains a string

☐ unary increment should not be used within other statements/expressions

☐ the code contains magic constants

☐ 3 is not divisible by 2

Question 3

2 / 2 pts

Please the sentences below that describes errors or bad habits in the following code. Select all that apply.

```
<?php
define(DATA_SAMPLES, 7);
function test()
{
    static $count=0;
    for ($j = 0 ; $j < DATA_SAMPLES ; ++$j)
    {
        for ($i = $j+1 ; $i <= DATA_SAMPLES ; ++$i)
        {
            if ($i *$j == 30) break;
            $count++;
        }
    }
}
?>
```

Correct!

- ☒ the code contains magic numbers
- ☐ the code is using a static variable
- ☐ unary increment should not be used within other statements/expressions
- ☐ the function does not return anything

Question 4

Not yet graded / 4 pts

Given the code below, find all the programming mistakes and bad habits

```
<html>
<body>
<form action="midterm1.php" method="post" enctype="multipart/form-da
ta">
    Select .txt file:
    <input type="file" name="fileToUpload" id="fileToUpload">
    <input type="submit" value="Upload" name="submit">
</form>
```

```
<?php
if($_FILES){
    $name = $_FILES['fileToUpload']['tmp_name'];
    $type = $_FILES['fileToUpload']['type'];
    if($type!="text/plain"){
        echo "Upload not allowed, only .txt files are allowed.";
    } else {
        $fp = fopen($name, 'r');
        if (!$fp) {
            echo 'Could not read file.';
        }
        $digits = array();
        $digitCount = 0;
        $containNonDigit = FALSE;
        $format20x20Counter = 1;
        while (false !== ($char = fgetc($fp)) && !$containNonDigit) {
            if(is_numeric($char)){
                $digits[$digitCount] = $char;
                if($format20x20Counter==20){
                    $digitCount++;
                    $digits[$digitCount] = " ";
                    $format20x20Counter = 1;
                } else {
                    $format20x20Counter++;
                }
                $digitCount++;
            } else if(empty($char) || ctype_space($char)){
                $digitCount = $digitCount; //do nothing
            } else {
                $containNonDigit = TRUE;
            }
        }

        echo "Input .txt formatted 20x20:";
        echo "<br><br>";
        $i = 0;
        while($i<sizeof($digits)){
            if(ctype_space($digits[$i])){
                echo "<br>";
            } else {
                echo $digits[$i];
            }
            $i++;
        }
        echo "<br>";

        if($containNonDigit){
            echo "Upload not allowed, your file must contain no non digit.";
        } else if($digitCount != 420){
            echo "Upload not allowed, your file must contain 400 digits";
            echo $digitCount;
        } else {
            $i = 0;
            $j = 0;
```

```
$maxSum = 0;
$tempSum = 0;
$maxDigits = array();
$tempMaxDigits = array();
$outOfBounds = FALSE;

while($i<sizeof($digits)){
    $tempSum = 0;
    while($j<4 && !$outOfBounds){
        if(!isset($digits[$i+$j]) || ctype_space($digits[$i+$j])){
            $outOfBounds = TRUE;
            $tempSum = 0;
        } else {
            $tempSum = $tempSum + $digits[$i+$j];
            $tempMaxDigits[$j] = $digits[$i+$j];
        }
        $j++;
    }
    $outOfBounds = FALSE;

    if($tempSum > $maxSum){
        $maxSum = $tempSum;
        $maxDigits[0] = $tempMaxDigits[0];
        $maxDigits[1] = $tempMaxDigits[1];
        $maxDigits[2] = $tempMaxDigits[2];
        $maxDigits[3] = $tempMaxDigits[3];
    }
    $j = 0;

    $tempSum = 0;
    while($j<84 && !$outOfBounds){
        if(!isset($digits[$i+$j]) || ctype_space($digits[$i+$j])){
            $outOfBounds = TRUE;
            $tempSum = 0;
        } else {
            $tempSum = $tempSum + $digits[$i+$j];
            $tempMaxDigits[$j] = $digits[$i+$j];
        }
        $j = $j+21;
    }
    $outOfBounds = FALSE;

    if($tempSum > $maxSum){
        $maxSum = $tempSum;
        $maxDigits[0] = $tempMaxDigits[0];
        $maxDigits[1] = $tempMaxDigits[1];
        $maxDigits[2] = $tempMaxDigits[2];
        $maxDigits[3] = $tempMaxDigits[3];
    }
    $j = 0;

    $tempSum = 0;
    while($j<88 && !$outOfBounds){
        if(!isset($digits[$i+$j]) || ctype_space($digits[$i+$j])){
```

```
$outOfBounds = TRUE;
$tempSum = 0;
} else {
    $tempSum = $tempSum + $digits[$i+$j];
    $tempMaxDigits[$j] = $digits[$i+$j];
}
$j = $j+22;
}
$outOfBounds = FALSE;

if($tempSum > $maxSum){
    $maxSum = $tempSum;
    $maxDigits[0] = $tempMaxDigits[0];
    $maxDigits[1] = $tempMaxDigits[1];
    $maxDigits[2] = $tempMaxDigits[2];
    $maxDigits[3] = $tempMaxDigits[3];
}
$j = 0;

    $i++;
}

echo '$maxDigits[3]';
echo "<br>";
echo "$maxSum";
echo "<br>";
}
}
}
?>
```

Your Answer:

HTML is outside the PHP

Sanitize global variables

Magic constants

You check for 420 but the code checks for 420

File not closed

Quiz Score: **4** out of 10