

Midterm #1

Due Mar 3 at 11:59pm**Points** 15**Questions** 7**Time Limit** 60 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	35 minutes	14 out of 15

Score for this quiz: **14** out of 15

Submitted Mar 3 at 9:04pm

This attempt took 35 minutes.

Question 1

8 / 8 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
include_once "variables.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 {
        echo phpinfo();
        $fp = fopen($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++;
            $format20x20Counter = 1;
        } else {
            $format20x20Counter++;
        }
        $digitCount++;
    } else {
        $containNonDigit = TRUE;
    }
}
}
}
?>
```

Your Answer:

1. The code is too long. The logic must be split into smaller helper functions.
2. The PHP is in the HTML. The correct way should be HTML in the (heredoc of) PHP.
3. `require_once` should be used in place of `include_once`.
4. Missing HTML closing tags `<body>` `<html>`.
5. The file is not closed, which poses a security hazard.
6. Magic constants are used (`if($format20x20Counter==20)`)
7. `TRUE` is used instead of `true`. `False` is used instead of `false`.
8. Global variables must be sanitized.
9. A missing semicolon (`include_once "variables.php"`).
10. (`if($_FILES)`) is not the correct way to check is a file has been uploaded.

Question 2

1 / 1 pts

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

Note: this code is contained entirely in a single .php file with no more lines in it

```
<?php
class Student
{
    function Student($param1, $param2)
    {
        public $name = $param1;
    }
}
$object1 = new Student();
$object1->grade = "A";
```

☐ the class doesn't contain a "grade" field, thus, the code cannot run

☐ the student object deserved A+

☐ there is no php closing tag (?>), thus, the code cannot run

Correct!

☒ the code is outdated

☐ one of the parameters to the constructor is not used, thus, the code cannot run

Question 3

2 / 2 pts

Please, select all the sentences below that describe 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;
}
?>
```

Correct!

unary increment should not be used within other statements/expressions



the function must be declared before being called



\$temp contains a string

Correct!

the code should not contain magic values



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

Question 4**1 / 1 pts**

What would be the output of this PHP code?

```
<?php
$f = 'a'
echo 'I hope to get a beautiful $f in this midterm!'
?>
```

Correct!

☒ I hope to get a beautiful \$f in this midterm!

☐ I hope to get a beautiful 'f' in this midterm!

☐ I hope to get a beautiful a in this midterm!

☐ I hope to get a beautiful 'a' in this midterm!

Question 5**0 / 1 pts**

Why is this code not running?

```
<?php
echo <<< _END
```

```
<html>
<body>
  <form action="midterm.php" method="post" enctype="multipart/form-data">
    <input type="file" name="fileToUpload" id="fileToUpload">
    <input type="submit" value="Upload" name="submit">
  </form>
_END;
if (isset($_FILES)) {
  echo "You uploaded a very useful file!";
}
else {
  echo "You didn't do anything yet";
}
echo '</body></html>';
?>
```

☐ HTML cannot be contained within PHP

You Answered



\$_FILES should be changed with \$_FILES[fileToUpload] or it cannot be checked

Correct Answer

☐ the heredoc mechanism is not used properly

☐ there is a missing semicolon

☐ HTML closing tags are not near the rest of the HTML code

Question 6

1 / 1 pts

Which line of code below would have made this code running correctly?

```
<?php
echo longdate(time());
$temp = "The date is ";
function longdate($timestamp)
{
  return $temp . date("l F jS Y", $timestamp);
}
```

```
}  
?>
```

- ☐ "echo longdate(\$timestamp);" instead of "echo longdate(time());"
- ☐ returning just the "\$temp" variable without concatenating the rest
- ☒ "global \$temp;" within the function body
- ☐ "global \$timestamp;" as first line in this PHP script

Correct!

Question 7

1 / 1 pts

What would be the value of the variable \$result at the end of this PHP script?

```
<?php  
    for ($i=0; $i<10; $i++) {  
        $result = test();  
    }  
  
    function test() {  
        static $count = 1;  
        $count+=1;  
        return $count;  
    }  
?>
```

- ☐ 9
- ☐ 1
- ☐ 2
- ☒ 11

Correct!

Quiz Score: **14** out of 15