

Submission Worksheet

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<https://learn.ethereallab.app/assignment/IT202-452-M2024/it202-module-2-php-problems/grade/vs53>

IT202-452-M2024 - [IT202] Module 2 PHP Problems

Submissions:

Submission Selection

1 Submission [active] 6/3/2024 7:44:48 PM

Instructions

^ COLLAPSE ^

Overview video: https://youtu.be/Vvx_cfdLqqM

Guide:

1. Make sure you're in the dev branch locally and `git pull origin dev` any pending changes.
2. Make a new branch per the recommended branch name below (`git checkout -b ...`).
3. Grab the template code from <https://gist.github.com/MattToegel/48b48377eaa1937c886b7840c449750a>.
4. Create individual PHP files for each problem and save the files inside your `public_html` folder in a subfolder of your choice.
 1. If you don't have this folder yet, refer to the setup lessons (you'll need a few files for the deployment to work).
5. Move the unedited template files to GitHub.
 1. `git add .`
 2. `git commit -m "adding template files"`
 3. `git push origin branch_name` (see below)
 4. Create and open a pull request from the homework branch to main (leave it open until later steps).
6. Note: As you work, it's recommended to add/commit at least after each solution is done (i.e., 3+ times in this case).
 1. Make sure the files are saved before doing this.
7. Fill in the items in the worksheet below (save as often as necessary).
8. Once finished, export the worksheet.
9. Add the output file to any location of your choice in your repository folder (i.e., a `Module2` folder).
10. Check that git sees it via `git status`.

11. If everything is good, continue to submit.
 1. Track the file(s) via `git add`.
 2. Commit the changes via `git commit` (don't forget the commit message).
 3. Push the changes to GitHub via `git push` (don't forget to refer to the proper branch).
 4. Create a pull request from the homework related branch to main (i.e., main <- "homework branch").
 5. Open and complete the merge of the pull request (it should turn purple).
 6. Locally checkout dev and pull the latest changes (to prepare for future work).
12. Take the same output file and upload it to Canvas.

Branch name: M2-PHP-Problems

Tasks: 6 Points: 10.00

Problem 1 (3 pts.)

^COLLAPSE ^

Task #1 - Points: 1

Text: Problem 1 Evidence

Details:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have only the odd values output.
Requires at least 2 screenshots (code + output from heroku dev)
Live URL must be Heroku Prod

#1) Show the output from heroku dev (url must be visible)



vs53-rt202-452-dev-5c06ebda047e.herokuapp.com/M2/problem1.php

Problem 1: Odd Output

A1	A2	A3	A4
<pre>Processing Array: array (0 => 0, 1 => 2, 2 => 4, 3 => 6, 4 => 8, 5 => 10, 6 => 12, 7 => 14, 8 => 16, 9 => 18, 10 => 20,)</pre> <p>Odd output: Printing the odd values only: 1 3 5 7 9</p>	<pre>Processing Array: array (0 => 0, 1 => 2, 2 => 4, 3 => 6, 4 => 8, 5 => 10, 6 => 12, 7 => 14, 8 => 16, 9 => 18, 10 => 20,)</pre> <p>Odd output: Printing the odd values only: 1 3 5 7 9</p>	<pre>Processing Array: array (0 => 0, 1 => 2, 2 => 4, 3 => 6, 4 => 8, 5 => 10, 6 => 12, 7 => 14, 8 => 16, 9 => 18, 10 => 20,)</pre> <p>Odd output: Printing the odd values only: 9 7 5 3 1</p>	<pre>Processing Array: array (0 => 0, 1 => 2, 2 => 4, 3 => 6, 4 => 8, 5 => 10, 6 => 12, 7 => 14, 8 => 16, 9 => 18, 10 => 20, 11 => 22, 12 => 24, 13 => 26, 14 => 28, 15 => 30, 16 => 32, 17 => 34, 18 => 36, 19 => 38, 20 => 40, 21 => 42, 22 => 44, 23 => 46, 24 => 48, 25 => 50,)</pre> <p>Odd output: Printing the odd values only: 1 1 3 3 5 5 7 7 9 9</p>

Caption (required) ✓

Describe/highlight what's being shown

Showing output the problem 1 of heroku dev, successfully showing all the odd values being printed.

URL (required) ✓

URL must be Heroku prod

<https://vs53-it202-452-prod-1c77a1c304b2.herokuapp.com/M2/problem1.php>

#2) Show the code solution (ucid/date as comment must be present)



```
6 function processArray($arr) {
7     echo "<br>Processing Array:<br><pre>" . var_export($arr, true) . "</pre>";
8     echo "<br>Odds output:<br>";
9     //start edits
10    //note: use the $arr variable to iterate over, don't directly touch $a1-$a4
11    //TODO add logic here to echo out only odd values
12    // UCID: vs53 Date: 6-3-24
13    You, 56 minutes ago • solved problem 1
14    echo "Printing the odd values only: ";
15    foreach ($arr as $value) {
16        if ($value % 2 != 0) {
17            echo $value . " ";
18        }
19    }
20 }
21
22 //end edits
23 echo "Problem 1: Odd Output<br>";
24 ?~
```

Caption (required) ✓

Describe/highlight what's being shown

Showing that I solved the code with the solution starting at line 14

Explanation (required) ✓

Explain in concise steps how this logically works

EDIT RESPONSE

So I started off by using a foreach loop to first iterate through all the elements. And then inside the loop I am checking if the element is odd by using the modulo operator which basically gives me the remainder after I divided it by 2. And I'm checking to see if the remainder is not 0, because if its not 0, then that means the number is odd. If the number is odd, I will echo or print it.

Problem 2 (3 pts.)

^COLLAPSE ^

Task #1 - Points: 1

Text: Problem 2 Evidence

Details:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have the numerical values summed and rounded to two decimals (similar to currency)

Requires at least 2 screenshots (code + output from heroku dev)

Live URL must be Heroku Prod

#1) Show the output from heroku dev (url must be visible)



vs53-it202-452-dev-5c06ebda047e.herokuapp.com/M2/problem2.php

Problem 2: Adding floats

A1	A2	A3	A4
<pre>Processing Array: array (0 => 10.001, 1 => 11.591, 2 => 0.011, 3 => 5.991, 4 => 16.121, 5 => 0.131, 6 => 100.981, 7 => 1.001,)</pre> <p>The total is 145.83</p>	<pre>Processing Array: array (0 => 1.09, 1 => 1.09, 2 => 0.99, 3 => 1.09, 4 => 0.99, 5 => 1.09, 6 => 0.99, 7 => 0.99,)</pre> <p>The total is 11.92</p>	<pre>Processing Array: array (0 => 0.01, 1 => 0.01, 2 => 0.01, 3 => 0.01, 4 => 0.01, 5 => 0.01, 6 => 0.01, 7 => 0.01, 8 => 0.01, 9 => 0.01,)</pre> <p>The total is 0.10</p>	<pre>Processing Array: array (0 => 10.01, 1 => -12.22, 2 => 0.23, 3 => 19.2, 4 => -5.13, 5 => 3.12,)</pre> <p>The total is 15.21</p>

Caption (required) ✓

Describe/highlight what's being shown

Screenshot showing my heroku output, showing that the total is the numbers added/summed up and then rounded to 2 decimal place.

URL (required) ✓

URL must be Heroku prod

<https://vs53-it202-452-prod-1c77a1c304b2.herokuapp.com/M2/problem2.php>

#2) Show the code solution (ucid/date as comment must be present)



```
6 function getTotal($arr) {
7     echo "<br>Processing Array:<br><pre>" . var_export($arr, true) . "</pre>";
8     $total = 0.00;
9     //start edits
10    //note: use the $arr variable, don't directly touch $a1-$a4
11    // UCID: vs53 Date: 6-3-24
12    //TODO do adding here You, 3 hours ago - Adding template files
13    foreach ($arr as $value) {
14        $total += $value;
15    }
16    //TODO do rounding stuff here (round to two decimals i.e., 0.10, 0.01, 0.00)
17    $total = number_format($total, 2, '.', '');
18
19    //end edits
20    echo "The total is $total";
21 }
```

```
22 echo "Problem 2: Adding Floats<br>";
```

Caption (required) ✓

Describe/highlight what's being shown

Solved problem 2, starting at line 12.

Explanation (required) ✓

Explain in concise steps how this logically works

 EDIT RESPONSE

I started by creating a foreach loop, and iterated through each element in arr as \$value. And then for each element, I added it to the variable \$total. And after I get the total sum of all elements, I go ahead and use the "number_format" function to round and format it to 2 decimal places.

Problem 3 (3 pts.)

 COLLAPSE

Task #1 - Points: 1

Text: Problem 3 Evidence

Details:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have its values converted to a positive version of the value AND converted back to the original data type.

Requires at least 2 screenshots (code + output from heroku dev)

Live URL must be Heroku Prod

#1) Show the output from heroku dev (url must be visible)



Problem 3: Be Positive			
A1	A2	A3	A4
Processing Array: array (0 => -3, 1 => -2, 2 => -3, 3 => -4, 4 => -5, 5 => -6, 6 => -7, 7 => -8, 8 => -9, 9 => -10,)	Processing Array: array (0 => -3, 1 => 3, 2 => -2, 3 => 2, 4 => -4, 5 => -5, 6 => -6, 7 => 5,)	Processing Array: array (0 => -0.01, 1 => -0.0001, 2 => -0.15,)	Processing Array: array (0 => -3, 1 => 12, 2 => -23, 3 => -4, 4 => -5, 5 => 5, 6 => -6, 7 => 8, 8 => -7, 9 => 7,)
Positive output: 1 (D), 2 (D), 3 (D), 4 (D), 5 (D), 6 (D), 7 (D), 8 (D), 9 (D), 10 (D)	Positive output: 1 (D), 1 (D), 2 (D), 2 (D), 3 (D), 3 (D), 4 (D), 5 (D)	Positive output: 0.01 (D), 0.0001 (D), 0.15 (D)	Positive output: 1 (S), 2 (S), 3 (S), 4 (S), 5 (S), 5 (S), 6 (S), 7 (S), 7 (S)

Caption (required) ✓

Describe/highlight what's being shown

I'm showing a screenshot of my heroku output for problem 3, showing the output in postive numbers, as well as the type.

URL (required) ✓

URL must be Heroku prod

<https://vs53-it202-452-prod-1c77a1c304b2.herokuapp.com/M2/problem3.php>

#2) Show the code solution (ucid/date as comment must be present)



```
6
7
8 function hexPositive($arr) {
9     echo "<br>Processing Array:<br>=<br>=<br>=" . var_export($arr, true) . "<br>=<br>=";
10    echo "<br>Positive output:<br>=";
11    $output = [];
12    //start edits
13    //note: use the $arr variable, don't directly touch $a1-$a4
14    // UCID: vs53 Date: 6-3-24
15    //TODO Take each value of the $arr, convert it to positive, and set it to the same index in the $output array but with the origin
16
17    foreach ($arr as $value) {
18        $positiveValue = abs($value);
19
20        if (is_string($value)) {
21            $positiveValue = (string)$positiveValue;
22        }
23
24        $output[] = $positiveValue;
25    }
26    //end edits
27
28    You, 34 minutes ago • Solved problem 2 and maybe problem 3
29
```

Caption (required) ✓

Describe/highlight what's being shown

Solved problem 3 starting around line 15

Explanation (required) ✓

Explain in concise steps how this logically works

EDIT RESPONSE

Again I use a foreach loop to iterate through all the elements, and this time I use the abs function to convert all the values into a positive or absolute value. And I store that number into a variable called \$positiveValue. I check to see if \$value was a string, and if it was I convert \$positiveValue back into a string using "is_string" And then finally I insert that into the values into \$output.

Reflection (1 pt.)

^COLLAPSE ^

Task #1 - Points: 1

Text: Reflect on your experience

i Details:

Talk about any issues you had, how you resolved them, and anything you learned during this process.

Provide concrete details/examples. At least a few sentences.

Response:

This assignment took longer than expected, probably because it was my first time using PHP in a while. I was having issues with wakatime not showing my time for some reason, but ended up restarting the extension and it worked. I also was a bit confused on what exactly I should do on the problems, but after asking questions in the class's discord, I was able to figure out what exactly I needed to do. Heroku also took a bit of time to setup and understand, but now its easy to use and should be a more smoother process moving forward.



^COLLAPSE ^

Task #2 - Points: 1

Text: Include the pull request link for this branch

i Details:

The correct link will end with /pull/ and a number.

URL #1

<https://github.com/VikShah/vs53-it202-452/pull/4>



^COLLAPSE ^

Task #3 - Points: 1

Text: Add Screenshot of Wakatime

i Details:

Note: The duration of time isn't directly related to the grade, the goal is to just make sure time is being tracked

Task Screenshots:

Gallery Style: Large View

Small

Medium

Large



Projects • vs53-it202-452

2 hrs 5 mins over the [Last 7 Days](#) in vs53-it202-452 under [all](#) branches. 

Showing the time I spent

Files	
1 hr 5 mins	problem2.php
36 mins	problem1.php
22 mins	problem3.php

Branches	
2 hrs 5 mins	M2-PHP-Problems

Showing the specific times for each problem

End of Assignment