

Course: IT202-008-S2025

Assignment: IT202 PHP Problems

Student: Carl E. (cle3)

Status: Submitted | Worksheet Progress: 105.00%

Potential Grade: 10.50/10.00 (105.00%)

Received Grade: 0.00/10.00 (0.00%)

Grading Link: <https://learn.ethereallab.app/assignment/v3/IT202-008-S2025/it202-php-problems/grading/cle3>

Instructions

1. Ensure you read all instructions and objectives before starting.
2. Create a new branch from dev called M2-Homework
 1. `git checkout dev` (ensure proper starting branch)
 2. `git pull origin dev` (ensure history is up to date)
 3. `git checkout -b M2-Homework` (create and switch to branch)
3. Copy the template code from here: [GitHub Repository - M2 Homework](#)
 - It includes Problems 1-4 and `base.php`. Put all into an M2 folder or similar inside your `public_html`
 - Immediately record to history
 - `git add public_html`
 - `git commit -m "adding M2 HW baseline files"`
 - `git push origin M2-Homework`
 - Create a Pull Request from M2-Homework to dev and keep it open
4. Fill out the below worksheet
 - Each Problem requires the following as you work
 - Ensure there's a comment with your UCID, date, and brief summary of how the problem was solved
 - Initial outline/plan of how you'll solve it via comments (add/commit after this stage)
 - Code solution (add/commit periodically as needed)
5. Once finished, click "Submit and Export"
6. Locally add the generated PDF to a folder of your choosing inside your repository folder and move it to Github
 1. `git add .`
 2. `git commit -m "adding PDF"`
 3. `git push origin M2-Homework`
 4. On Github merge the pull request from M2-Homework to dev
 5. On Github create a pull request from dev to prod and immediately merge. (This will trigger the prod deploy to make the heroku prod links work)
7. Upload the same PDF to Canvas
8. Sync Local
 1. `git checkout dev`
 2. `git pull origin dev`

Task #1 (2 pts.) - Edit the `printOdds` function to output odd values

Combo Task:

Weight: 100%

Objective: Edit the `printOdds` function to output odd values of the array

Details:

- Only make edits where noted via provided comments
- Challenge: Print odd values only in a single line separated by commas
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

Item:#1

Weight: 40%

Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

Image Prompt

```
// Start Solution Edits
// UCID: cle3
// Date: 02/16/2025
// My goal is to print odd values only in a single line separated by commas
// To do this I need to have find a way to detect odd values
// I also need a way to store those values
// Finally I need to print odd values like the problem wants me to
// I may need a loop to iterate through the array

// Initializing Empty Array to hold Odd Values
$oddArray = [];

// I am looping through the array looking for odd values
for ($i = 0; $i < count($arr); $i++){
    if ($arr[$i] % 2 != 0){
        $oddArray[] = $arr[$i];
    }
}

// I am printing the odd values separated by commas
echo implode(", ", $oddArray);

// End Solution Edits
echo "OK";
```

Screen shot of completed code for problem 1

Running Problem 1 for [cle3] [2025-02-17 15:24:43]

Objective: Print out only odd values in a single line separated by commas

Problem 1: Original Array: [0][1][2][3][4][5][6][7][8][9]

Output Array: 1, 3, 5, 7, 9

Problem 2: Original Array: [0][1][2][3][4][5][6][7][8][9]

Output Array: 9, 7, 5, 3, 1

Problem 3: Original Array: [0][0][1][1][2][2][2][2][3][3][3][3][4][4][4][4][5][5][5][5][6][6][6][6][7][7][7][7][8][8][8][8]

Output Array: 1, 1, 3, 3, 5, 5, 7, 7, 9, 9

Problem 4: Original Array: [9][9][8][8][7][7][7][6][6][5][5][4][4][3][3][2][2][1][1][1][0]

Output Array: 9, 9, 7, 7, 5, 5, 3, 3, 1, 1

Completed Problem 1 for [cle3] [2025-02-17 15:24:43]

Screen shots of output on Heroku



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Item:#2

Weight: 20%

Details:

- Direct link to the file in the homework related branch from Github (should end in .php)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

Url Prompt

URL #1

https://github.com/carledouard-dev/cle3-IT202-008-M2-Homework/public_html/M2/problem1.php



URL

https://github.com/carledouard-dev/cle3-IT202-008-M2-Homework/public_html/M2/problem1.php



URL #2

<https://cle3-it202-008-prod-58562394d633.herokuapp.com/M2/problem1.php>



URL

<https://cle3-it202-008-prod-58562394d633.herokuapp.com/M2/problem1.php>



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Item:#3

Weight: 40%

Details:

Briefly explain how the code solves the challenge (note: this isn't the same as what the code does)

Text Prompt

Your Response:

The code uses an array to store odd values, utilizing the modulus operator to determine whether values are odd or even. By correctly identifying odd values, the code stores them in the odd values array. This allows the code to print the odd values in the requested format.



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Section #2: (2 pts.) Problem 2 - Sum

Task #1 (2 pts.) - Edit the `sumValues` function to sum the array va

Combo Task:

Weight: 100%

Objective: Edit the `sumValues` function to sum the array values and present them in a format with exactly two decimal places

Details:

- Only make edits where noted via provided comments
- Challenge 1: Sum all the values of the passed in array and assign to total
- Challenge 2: Have the sum be represented as a number with exactly 2 decimal
- Example: 0.1 would be shown as 0.10, 1 would be shown as 1.00, etc
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

Item:#1

Weight: 40%

Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

Image Prompt

```
function sumValues(arr) {
  // Step 1: sketch out plan using comments (include ucid and date)
  // Step 2: Add/commit your outline of comments (required for full credit)
  // Step 3: Add code to solve the problem (add/commit as needed)

  let total = 0;
  // Loop through array
  for (let i = 0; i < arr.length; i++) {
    total += arr[i];
  }
  // Round to two decimal places
  return total.toFixed(2);
}
```

Output: 1.00

Screen shot of VsCode for Problem 2

[illegible]

Heroku Dev output complete

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Item:#2

Weight: 20%

Details:

- Direct link to the file in the homework related branch from Github (should end in .php)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

≡, Url Prompt

URL #1

https://github.com/carledouard-dev/cle3-IT2021/blob/master/Homework/public_html/M2/problem2.php



URL
<https://github.com/carledouard-dev>



URL #2

<https://cle3-it202-008-prod-58562394d633.herokuapp.com/problem2.php>



URL
<https://cle3-it202-008-prod-585623>



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Item:#3

Weight: 40%

Details:

Briefly explain how the code solves the challenges (note: this isn't the same as what the code does)

≡ Text Prompt

Your Response:

The code solves the challenge by adding the numbers in the array by utilizing a loop, this allows it to get the sum. Afterward, it calls the `number_format` function to ensure it rounds to 2 decimals.



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Section #3: (2 pts.) Problem 3 - Conversion

Task #1 (2 pts.) - Edit the ``bePositive`` function to make each value

Combo Task:

Weight: 100%

Objective: Edit the ``bePositive`` function to make each value positive, convert it back to the original data type, and set it to the proper slot in the ``output`` array

Details:

- Only make edits where noted via provided comments
- Challenge 1: Make each value positive
- Challenge 2: Convert the values back to their original data type and assign it to the proper slot of the output array
- Step 1: sketch out plan using comments (include uid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

Item:#1

Weight: 40%

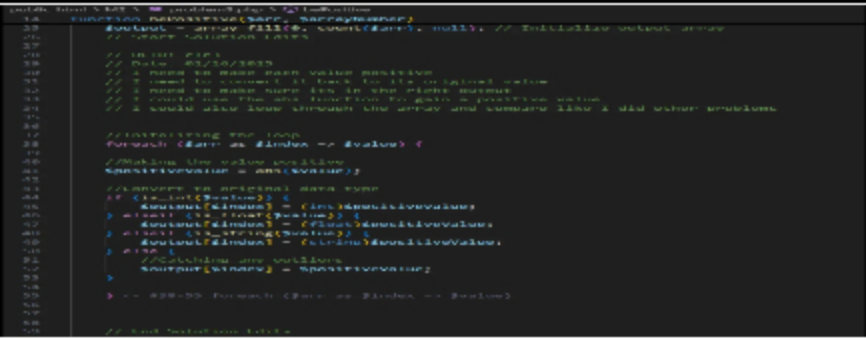
Details:

Two screenshots are expected

Two screenshots are expected

1. Snippet of relevant code showing solution (with uid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

⇒ Image Prompt



The screenshot shows a PHP script for 'Problem 3'. It defines an array of values, iterates through them, and calculates a sum. Comments explain the logic, including a note about the 'sum' variable being updated. The code is well-commented and includes a final output statement.

Code snippet



The screenshot shows the output of a Heroku deployment. It displays the command used to deploy the code, the output of the deployment process, and the resulting URL for the application. The output includes the command 'heroku deploy' and the resulting URL 'https://carledouard-dev.herokuapp.com/'. It also shows the output of the application, which is a list of numbers.

Heroku dev code completion

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Item:#2

Weight: 20%

Details:

- Direct link to the file in the homework related branch from Github (should end in .php)
- Direct link to the file on Heroku Prod (Just grab the base prod url and manually enter the path to the file)

⇒ Url Prompt

URL #1

https://github.com/carledouard-dev/cle3-IT2024008M2-Homework/public_html/M2/problem3.php



URL

<https://github.com/carledouard-dev>

URL #2

<https://cle3-it202-008->

<prod-58562394d633.herokuapp.com/lem3.php>



<https://cle3-it202-008-prod-585623>



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Item:#3

Weight: 40%

Details:

Briefly explain how the code solves the challenges (note: this isn't the same as what the code does)

≡ Text Prompt

Your Response:

My code uses abs to make each value positive, this allows it to check the original data type to convert it back(since the first challenge was completed). Then converts the values to the original data types by using an output array to match the input types.



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Section #4: (2 pts.) Problem 4 - Strings

Task #1 (2 pts.) - Edit the `transformText` function to solve the cha

Combo Task:

Weight: 100%

Objective: Edit the `transformText` function to solve the challenges

Details:

- Only make edits where noted via provided comments
- Challenge 1: Remove non-alphanumeric characters except spaces
- Challenge 2: Convert text to Title Case
- Challenge 3: Trim leading/trailing spaces and remove duplicate spaces
- Result 1-3: Assign final phrase to placeholderForModifiedPhrase



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Item:#2

Weight: 20%

Details:

- Direct link to the file in the homework related branch from Github (should end in .php)
- Direct link to the file on Heroku Prod (visit the proper file on Heroku dev after a manual deploy)

Url Prompt

URL #1

https://github.com/carledouard-dev/cle3-IT202-008-M2-Homework/public_html/M2/problem4.php



URL

<https://github.com/carledouard-dev>



URL #2

[https://cle3-it202-008-prod-58562394d633.herokuapp.com.problem4.php](https://cle3-it202-008-prod-58562394d633.herokuapp.com/problem4.php)



URL

<https://cle3-it202-008-prod-585623>



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Item:#3

Weight: 40%

Details:

Briefly explain how the code solves the challenges (note: this isn't the same as what the code does)

Text Prompt

Your Response:

The code first uses preg_replace to change non-alphanumeric characters, this allows us to then utilize ucwords which works with strings to put it in the Title Text, and lastly, we trim off duplicate spaces and store the output in the placeholder.



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Combo Task:

Weight: 45%

Objective: Edit the `transformText` function to solve the extra credit challenge (challenge 4)

Details:

- Only make edits where noted via provided comments
- Challenge 4: Extract middle 3 characters (beginning starts at middle of phrase)
- Assign result to 'placeholderForMiddleCharacters'
- If not enough characters assign "Not enough characters"
- Step 1: sketch out plan using comments (include uuid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

Item:#1

Weight: 40%

Details:

Two screenshots are expected

1. Snippet of relevant code showing solution (with uuid/date comment)
2. Full output of executing the program (visit the proper file on Heroku dev after a manual deploy)

⇒ Image Prompt



Missing Caption



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Item:#3

Weight: 50%

Details:

Briefly explain how the code solves the extra credit challenge (note: this isn't the same as what the code does)

≡ Text Prompt

Your Response:

I did not attempt the extra credit challenge, I instead chose to increase my understanding.



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Section #5: (2 pts.) Misc

Task #1 (0.67 pts.) - Github Details

Combo Task:

Weight: 33.33%

Objective: Github Details

Item:#1

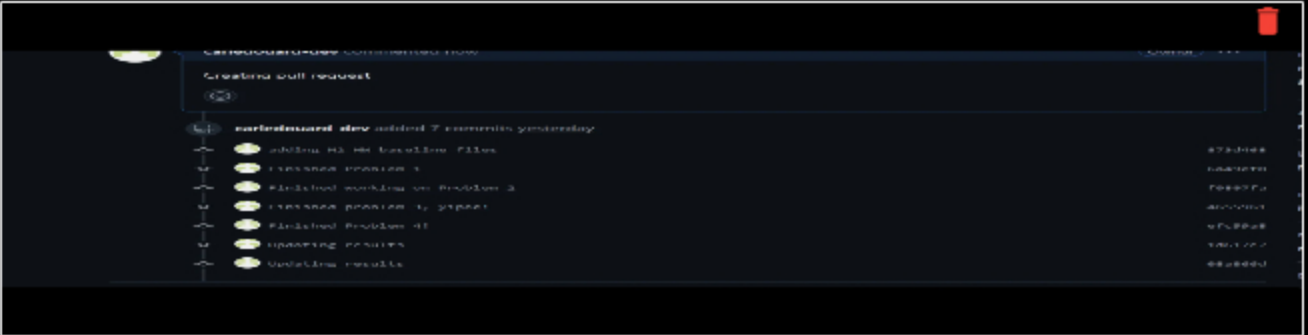
Weight: 60%

Details:

From the Commits tab of the Pull Request screenshot the commit history Following minimum should be present

≡ Image Prompt

Accidentally closed the pull request when I first initialized it, however I found this and hopefully it is proof of me working.



Pull request I think

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Item:#2

Weight: 40%

Details:

Include the link to the Pull Request (should end in /pull/#)

Url Prompt

URL #1

<https://github.com/carledouard-dev/cle3-IT202402/>



URL

<https://github.com/carledouard-dev>

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Task #2 (0.00 / 0.67 pts.) - WakaTime - Activity

Weight: 33.33%

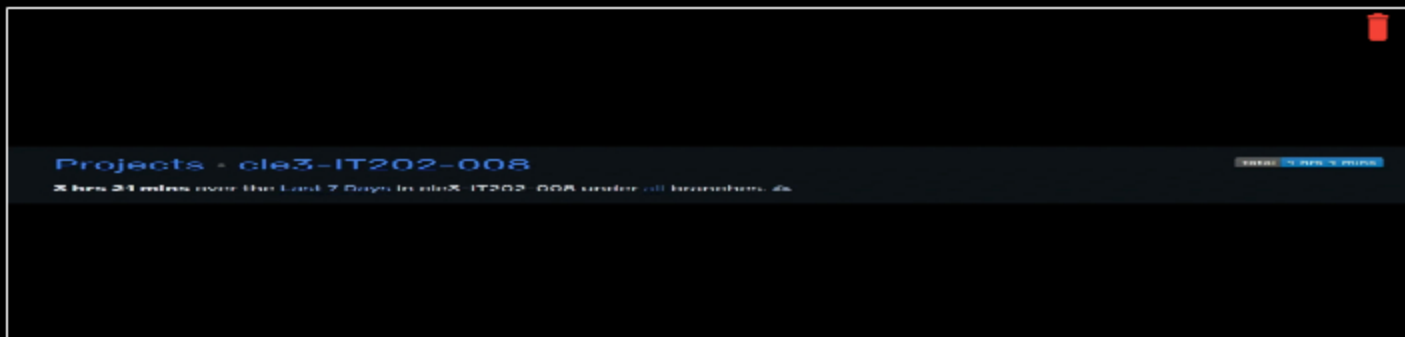
Objective: WakaTime - Activity

Details:

- Visit the WakaTime.com Dashboard
- Click Projects and find your repository
- Capture the overall time at the top that includes the repository name

- Capture the individual time at the bottom that includes the file time
- Note: The duration isn't relevant for the grade and the visual graphs aren't necessary

Image Prompt



WakaTime screen shot

Files		Branches	
46 mins	public_html/M2/problem1.php	3 hrs 21 mins	M2-Homework
53 mins	public_html/M2/problem4.php	0 mins	Unknown
40 mins	public_html/M2/problem5.php		
28 mins	public_html/M2/problem2.php		
19 mins	public_html/M2/base.php		
0 secs	C:/php-0.4.3/php.ini		

WakaTime files screen shot



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Task #3 (0.00 / 0.67 pts.) - Reflection

Sub-Tasks:

Task #1 (0.00 / 0.33 pts.) - What did you learn?

Weight: 33.33%

Objective: What did you learn?

Details:

Briefly answer the question (at least a few decent sentences)

≡ Text Prompt

Your Response:

Honestly, I learned a lot, the biggest being testing on my local server and the different syntax in PHP. I also became more proficient with deploying my Heroku server and the different branches. Also, I understand commits now and how I can use it to track progress and version history. This homework took me over 4 hours but I learned a lot as a result.



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Task #2 (0.00 / 0.33 pts.) - What was the easiest part of the assignment?

Weight: 33.33%

Objective: *What was the easiest part of the assignment?*

Details:

Briefly answer the question (at least a few decent sentences)

≡ Text Prompt

Your Response:

The easiest would have to be problem 1, it was the most straight forward and I used some of my java background knowledge to solve it. Although I did take some time on it, it required less effort on my end since I already had a base understanding of how to solve it.



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Task #3 (0.00 / 0.33 pts.) - What was the hardest part of the assignment?

Weight: 33.33%

Objective: *What was the hardest part of the assignment?*

Details:

Briefly answer the question (at least a few decent sentences)

≡ Text Prompt

Text Prompt

Your Response:

The hardest would have to be problem 4, I was lost. I am a bit sad I did not complete the extra credit, but I thoroughly enjoyed the homework. I feel as though I grew in my understanding of PHP and VsCode as a result.



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