Submission Worksheet

Submission Data

Course: IT202-450-M2025

Assignment: IT202 PHP Problems Student: Nathanael G. (ng569)

Status: Submitted | Worksheet Progress: 100+%

Potential Grade: 11.00/10.00 (110.00%) Received Grade: 0.00/10.00 (0.00%) Started: 6/10/2025 11:02:59 PM Updated: 6/10/2025 11:49:49 PM

Grading Link: https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-problems/grading/ng569

View Link: https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-problems/view/ng569

Instructions

- · Overview Link: https://youtu.be/iwA6vyRPhoM
- Ensure you read all instructions and objectives before starting.
- Create a new branch from dev called M2-Homework
 - 1. git checkout dev (ensure proper starting branch)
 - git pull origin dev (ensure history is up to date)
 - 3. git checkout -b M2-Homework (create and switch to branch)
- Copy the template code from here: <u>GitHub Repository M2 Homework</u>
 - 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)
- 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
 - 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

- git checkout dev
- 2. git pull origin dev

Section #1: (2 pts.) Problem 1 - Odds

Progress: 100%

Progress: 100%

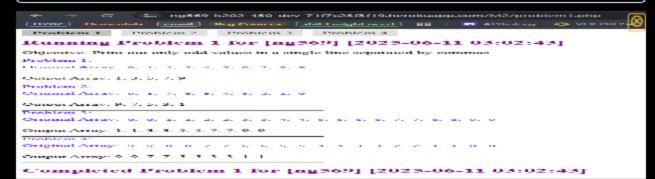
Part 1:

Progress: 100%

Details:

Two screenshots are expected

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



Heroku output problem 1

Company of the compan

Code snippet for problem 1



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Part 2:

Progress: 100%

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)



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₽ Part 3:

Progress: 100%

Details:

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

Your Response:

I used a for loop that would iterate through each element in the array. Then I used the modulus symbol to return the remainder of the element modulus 2. This way if it was positive it would return 0 and if it was odd it would return 1. Then the odd numbers would be placed into another array full of the odd numbers in the original array, which would then be displayed by iterating over the entire array and outputting each element.



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

Progress: 100%

Progress: 100%

Part 1:

Progress: 100%

Details:

Two screenshots are expected

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

```
// Indicage 1 has all the value of the poster in array and assign to total

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// Election of the poster in a control of the poster in array and assign to total

// Election in the poster in a control of the poster in array and as a control of the poster in a control of t
```

Code snippet for problem 2



Heroku output problem 2



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⇔ Part 2:

Progress: 100%

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)





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₽ Part 3:

Progress: 100%

Details:

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

Your Response:

I used a for loop to iterate over the array. Each element in the array would then be added to a

round the first argument to the number of decimal places in the second argument, I was able to round the total variable to 2 decimal places.



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

Progress: 100%

Progress: 100%

Part 1:

Progress: 100%

Details:

Two screenshots are expected

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

```
Color to the color of the color
```

Code snippet for problem 3

```
Findings 1 Findings 2 Findings 3 Findings 3 Findings 3 Findings 3 Findings 3 Findings 4 Findings 4 Findings 3 Findings 3 Findings 4 Findings 4
```

Heroku output problem 3



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Part 2:

Progress: 100%

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)



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≢, Part 3:

Progress: 100%

Details:

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

Your Response:

I used a for loop to iterate over the array. Then I got the type and compared the first letter in the type in order to determine what type the element was. From there, I used the abs() function, which makes all negative values positive, to make all the elements positive after casting the elements as float. After that, depending on the original type, I recast the float into the appropriate type.



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

the challenges

Progress: 100%

Part 1:

Progress: 100%

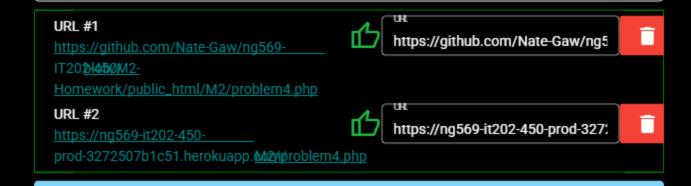
Details:

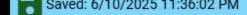
Two screenshots are expected

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

uepioy) ------Code snippet for problem 4 Planting 1, Planting 1, Planting and Pl Heroku output problem 4 part 1 Heroku output problem 4 part 2 Saved: 6/10/2025 11:36:02 PM Part 2: Progress: 100% 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)





₽ Part 3:

Progress: 100%

Details:

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

Your Response:

Created a small and simple array of non-alhpanumeric characters, so when I iterate over each char in the elements I was able to deduce the non-alphanumeric characters. Then I used str_replace() function, which replaces a chunk of a string based on the arguments, to remove the non-alphanumeric characters. Then I used ucwords() function in order to uppercase the first char in every word. Then I used trim() function, in order to remove any leading or preceeding whitespaces. Then I used a while loop to keep checking for 2 whitespaces wihin the element and keep replacing the 2 whitespace for 1, as to keep the separation between words but remove the excess.



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Progress: 100%

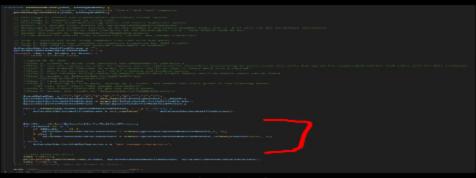
Part 1:

Progress: 100%

Details:

Two screenshots are expected

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



code snippet for ec







heroku output problem 4 part 2 ec



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₽ Part 2:

Progress: 100%

Details:

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

Your Response:

I first found the string length to determine the length. If the length was 3 then its already the middle 3 characters so nothing has to be done. If the length was less than 3 then there were not enough characters. If the length was 4, then we took the middle 2 characters. Then if the length was more than 4, then determine the middle of the string length and get the 3 characters in the middle.



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Section #5: (2 pts.) Misc

Progress: 100%

≣ Task #1 (0.67 pts.) - Github Details

Progress: 100%

Part 1:

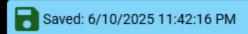
Progress: 100%

Details:

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



commit history



Part 2:



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

Progress: 100%

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

Projects • ng569-IT202-450

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2 hrs 30 mins over the Last 7 Days in ng569-IT202-450 under all branches. 🗅

overall

31 secs composer.lock
14 secs public_html/index.php
9 secs public_html/M2/Problem2
7 secs public_html/proposel.md
7 secs lib/config.php
5 secs Proofile
3 secs README.md
2 secs public_html/test_db.php
1 sec public_html/README.md

individual



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Progress: 100%

=> Task #1 (0.33 pts.) - What did you learn?

Progress: 100%

Details:

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

Your Response:

I learned about php. I have never used php so it definitely was a struggle to understand sometimes. But it was very similar to pearl, which I've seen before. I also learned a lot about the different integrated functions that php has and how different variable manipulation is



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

Progress: 100%

Details:

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

Your Response:

The easiest part of the assignment has to be the odd number part. I've done this so many times in many other languages so it came very naturally. The only struggle was of course learning the language, but the math never changes.



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=, Task #3 (0.33 pts.) - What was the hardest part of the

assignment?

Progress: 100%

Details:

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

Your Response:

The hardest part of the assignment was probably removing the whitespace. I was trying not to use any loops because from what I saw in the video, loops were not needed. But after looking at the php index in w3schools, I still could not figure out how to do that without loops, so I had to resort to using one.



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