Submission Worksheet

Submission Data

Course: IT202-450-M2025
Assignment: IT202 PHP Multi-Dimension Problems
Student: Nathanael G. (ng569)
Status: Submitted | **Worksheet Progress:** 100%
Potential Grade: 1000.00/1000.00 (100.00%)
Received Grade: 0.00/1000.00 (0.00%)
Started: 7/12/2025 12:38:17 AM
Updated: 7/12/2025 1:00:41 AM
Grading Link: https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-multi-dimension-problems/grading/ng569
View Link: https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-multi-dimension-problems/view/ng569

Instructions

- Overview Link: https://youtu.be/jd5giyXReaI

1. Ensure you read all instructions and objectives before starting.
2. Create a new branch from `dev` called `M6-Homework`
    1. `git checkout dev` (ensure proper starting branch)
    2. `git pull origin dev` (ensure history is up to date)
    3. `git checkout -b M6-Homework` (create and switch to branch)
3. Copy the template code from here: GitHub Repository - M6 Homework
    - It includes Problems 1-3 and `base.php`. Put all into an `M6` folder or similar inside your `public_html`
    - Immediately record to history
        - `git add public_html`
        - `git commit -m "adding M6 HW baseline files"`
        - `git push origin M6-Homework`
        - Create a Pull Request from `M6-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 M6-Homework`
    4. On Github merge the pull request from `M6-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`

Section #1: (250 pts.) Problem 1 - Subset

Progress: 100%

≔ Task #1 (250 pts.) - Edit the `processBirds` function to extract properties

Progress: 100%

Details:

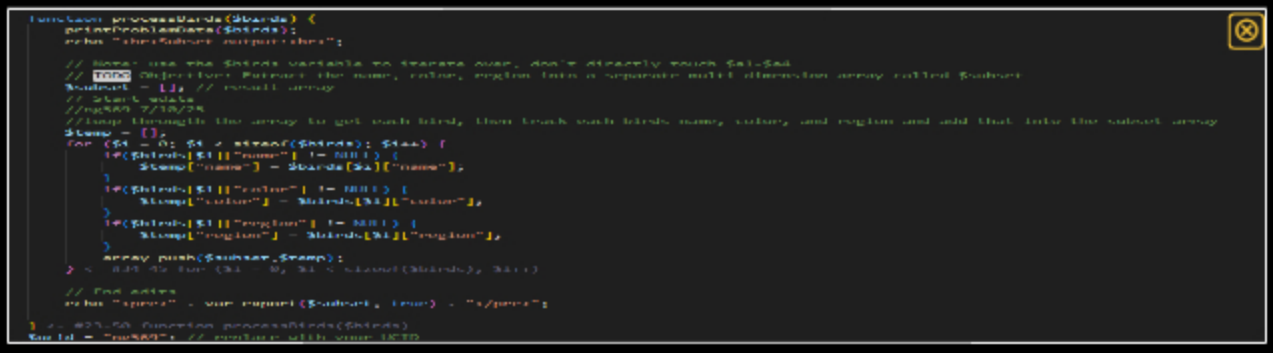
- Only make edits where noted via provided comments
- Challenge: Extract the name, color, region of each bird into the $subset array
- Step 1: sketch out plan using comments (include ucid and date)
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

🖻 Part 1:

Progress: 100%

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)



VS Code for problem 1

Heorku Output

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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)

URL #1
https://github.com/Nate-Gaw/ng569-IT202-450-M6-Homework/public_html/M6/problem1.php

URL
https://github.com/Nate-Gaw/ng5

URL #2
https://ng569-it202-450-prod-3272507b1c51.herokuapp.com/M6/problem1.php

URL
https://ng569-it202-450-prod-327

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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:

First I used a for loop to loop through each array in order to access each one. Then I check if any of the keys im looking for are empty. If not, then I extract the data and place it into a temp array which I append to the end of the final array.

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Section #2: (250 pts.) Problem 2 - Adding Properties

Progress: 100%

Task #1 (250 pts.) - Edit the `processCars` function to add

properties

Progress: 100%

Details:

- Only make edits where noted via provided comments
- Challenge 1: Add a new property called age that's set from today's year and the car's year
- Challenge 2: Add a new property called isClassic that's true/false based on $classic_age
- 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)

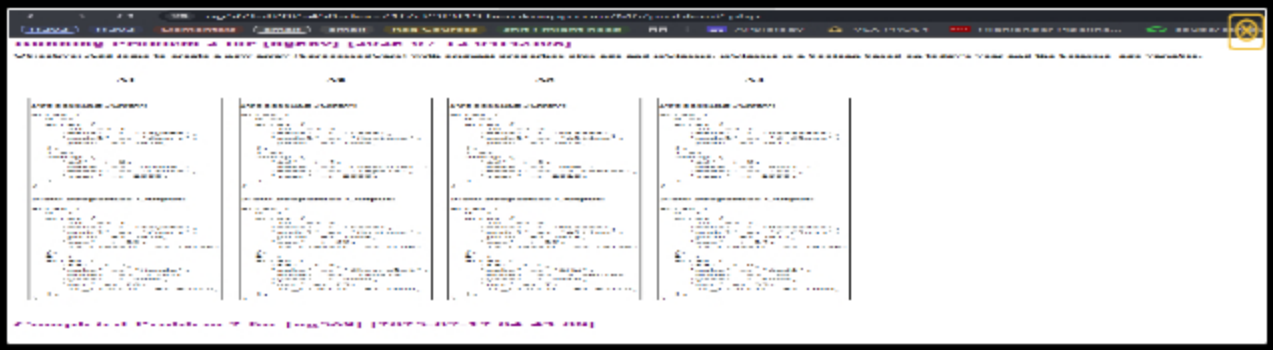
Part 1:

Progress: 100%

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)

VS Code for 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)

URL #1
https://github.com/Nate-Gaw/ng569-IT202-450/M6-Homework/public_html/M6/problem2.php

URL
https://github.com/Nate-Gaw/ng5

URL #2
https://ng569-it202-450-prod-3272507b1c51.herokuapp.com/M6/problem2.php

URL
https://ng569-it202-450-prod-327

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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:

First I use a for loop in order to loop through each array. Then I use a foreach loop in order to grab the key and data within the array. Then by looping though each item, Im able to find if the key is labeled "year" then find the age based on the year of the car model. Then if it's greater than the specified age, I can deduce if the car is classic or not. Then I save the age and if the car is a classic and add that as an array to the end of the final array.

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Section #3: (250 pts.) Problem 3 - Join

Progress: 100%

Task #1 (250 pts.) - Edit the `joinArrays` function to combine two arrays based on a common key

Progress: 100%

Details:

- Only make edits where noted via provided comments
- Challenge: Combine the data in both arrays by the userId property
- Step 1: sketch out plan using comments (include ucid and date)

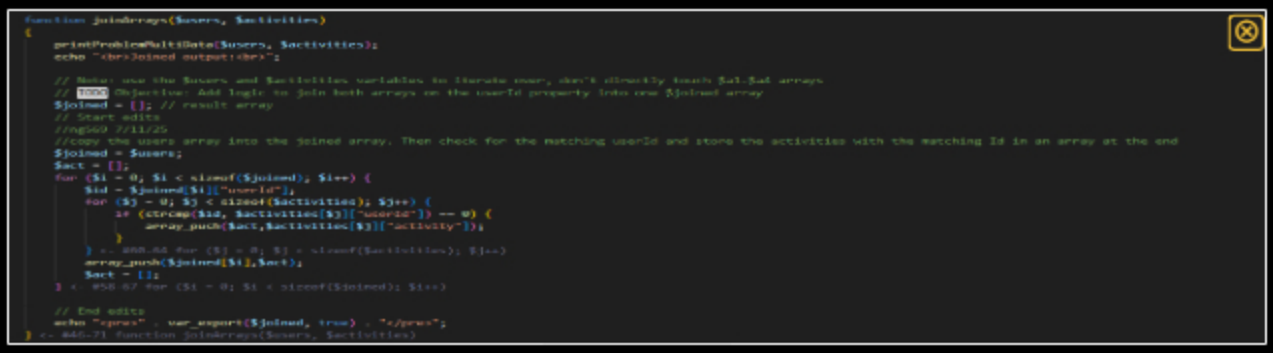
- Step 2: Add/commit your outline of comments (required for full credit)
- Step 3: Add code to solve the problem (add/commit as needed)

Part 1:

Progress: 100%

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)



VS Code for 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)

URL #1

URL

https://github.com/Nate-Gaw/ng569-IT202-450-M6-Homework/public_html/M6/problem3.php

URL #2
https://ng569-it202-450-prod-3272507b1c51.herokuapp.com/M6/problem3.php

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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 copied the users array to the joined, since we wanna keep everything and loop over the joined array. Then I extract the userId from the array and check it accross the activities array. If the activity has the same Id, then I copy over the information into a temp array, whcih then gets copied over to the joined array once done.

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Section #4: (250 pts.) Misc

Progress: 100%

Task #1 (83.33 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

Github Commits

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Part 2:

Progress: 100%

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

URL #1
https://github.com/Nate-Gaw/ng569-IT202-450

URL
https://github.com/Nate-Gaw/ng5

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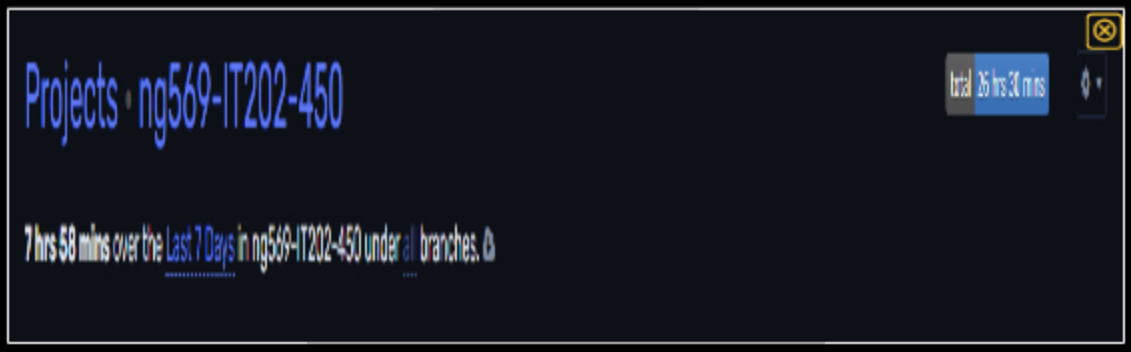
Task #2 (83.33 pts.) - WakaTime - Activity

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



Wakatime

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Task #3 (83.33 pts.) - Reflection

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 hoe to access multidimentional arrays in php. I had to look up a couple of things, such as array manipulation and multidimentional array manipulation and how strcmp works. Other than that, I also refreshed on my php, since I have been working on JS for the past week so it was good to get back to something I was getting pretty decent at.

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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 was the structuring. Especially for problem 3, the structure was very easy to conceive in my brain, but fairly difficult to execute, since coding is not always straightforward. And since I've used multidimentional arrays in many other programming languages, using them wasn't so hard and came pretty naturally.

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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 making things more efficient. Even at this stage, it's not efficient at all and definitely needs improvement to save memory. But since memory isn't so much of an issue, I figure it does the job, and I didn't wanna keep changing things just so I don't end up ruining my work.

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