# Submission Worksheet

# **Submission Data**

Course: IT202-450-M2025

Assignment: IT202 PHP Multi-Dimension Problems

Student: Mark Y. (may23)

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 11:57:21 AM Updated: 7/12/2025 12:24:10 PM

Grading Link: https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-multi-dimension-

problems/grading/may23

View Link: https://learn.ethereallab.app/assignment/v3/IT202-450-M2025/it202-php-multi-dimension-

problems/view/may23

### Instructions

- Overview Link: <a href="https://youtu.be/jd5giyXReal">https://youtu.be/jd5giyXReal</a>
- Ensure you read all instructions and objectives before starting.
- 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
- 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"
- 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
  - 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)

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- 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%

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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)

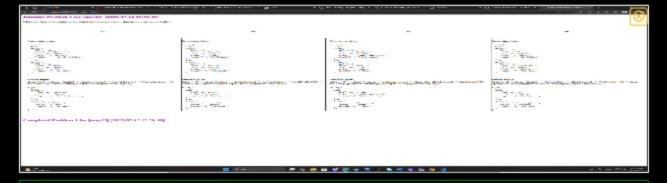
#### Part 1:

Progress: 100%

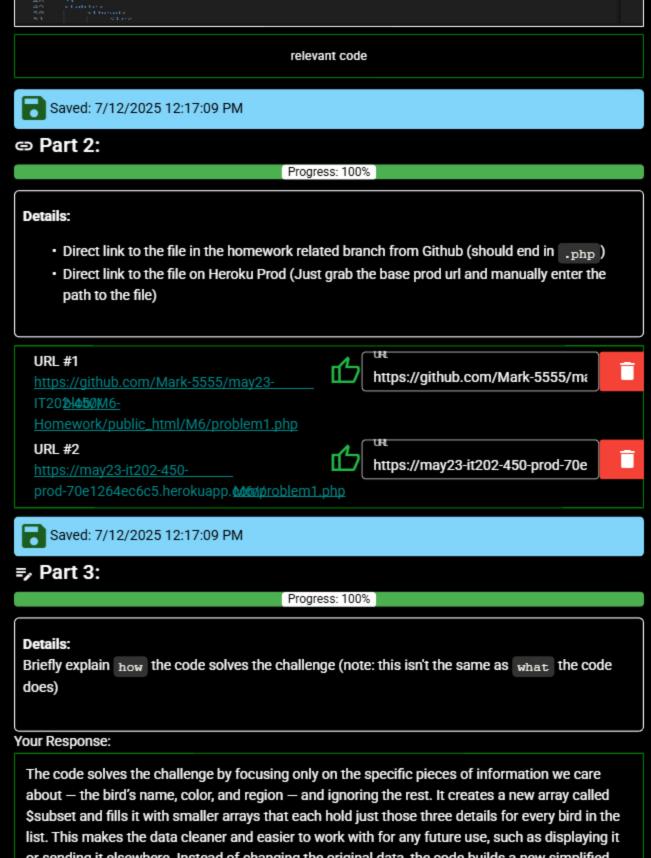
#### Details:

Two screenshots are expected

- 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)



#### sample output



or sending it elsewhere. Instead of changing the original data, the code builds a new simplified version, which is exactly what the task asked for.

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

Progress: 100%

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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:

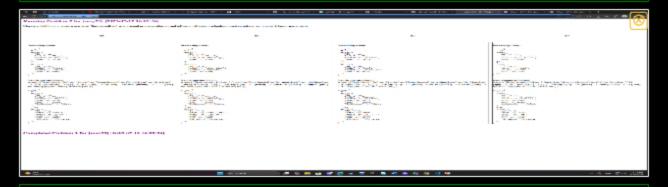
#### Progress: 100%

#### Details:

Two screenshots are expected

- 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)

#### P2 code



sample output



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The code solves the challenge by enhancing each car's information with how old the car is and whether it qualifies as a classic. It figures out the age by subtracting the car's model year from the current year. Then, it checks if that age is greater than or equal to a set number (like 25) to decide if it's a classic. Instead of changing the original data, it builds a new list of cars with the added properties, making the output cleaner and more useful for later tasks or display.



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

Progress: 100%

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

- 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)



#### sample output

```
Note: use the %users and %activities variables to iterate over, don't directly touch %a size objective: Add logic to join both arrays on the userId property into one %joined a start edits

trart edits

reach (%users as %userId | --- %activity) {

if (%user["userId"] --- %activity["userId"]) {

%joined[] = array_merge(%user, %activity);

break; // stop once a match is found
```

P3 code



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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:

The code solves the challenge by combining two separate sets of information — one about users and one about their activities — into a single list. It looks at each user and finds their matching activity by comparing their userld. When it finds a match, it merges the two pieces of data together. This creates a new, organized list where each entry shows the user's details along with what they do, making the information easier to understand and use.



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# Section #4: (250 pts.) Misc

Progress: 100%

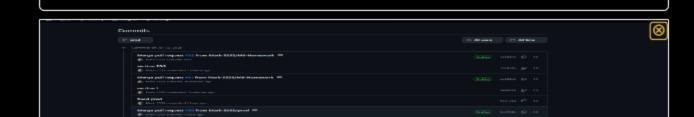
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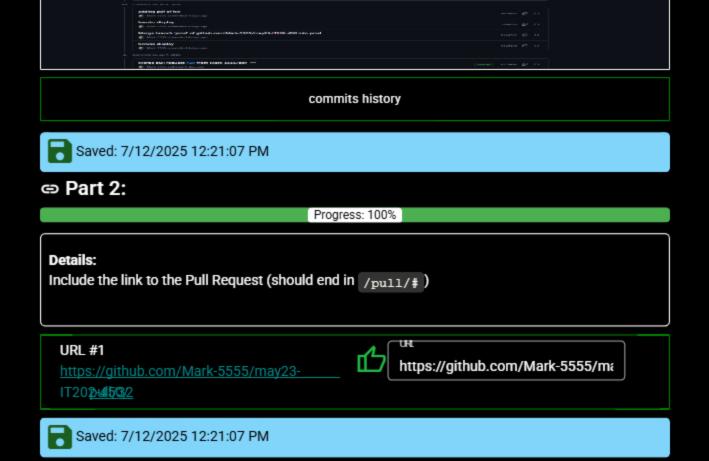
Progress: 100%

#### Part 1:

Progress: 100%

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



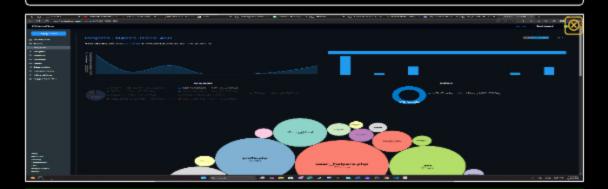


### Task #2 (83.33 pts.) - WakaTime - Activity

Progress: 100%

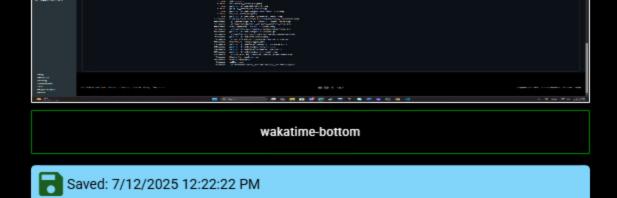
#### Details:

- · 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-top





<u>≔</u> 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 how to handle and organize data in practical ways. I practiced extracting only the needed information from a larger set, adding new calculated properties to existing data, and combining two related data sets using a shared key. These tasks taught me how to manipulate arrays, apply logic to enhance data, and join information efficiently — all important skills for backend development and working with real-world data.

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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 was Section 1, where I just had to extract specific fields (name, color, and region) from each bird and organize them into a new array. It was straightforward and mostly involved simple looping and array access.

## =, 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 was Section 3, because it required matching and merging data from two separate arrays based on a common key (userId). It involved nested loops and careful thinking to avoid mismatches or missing data, which made it more challenging and required more attention to detail.



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