

Course: IT202-008-S2025

Assignment: IT202 PHP Multi-Dimension Problems

Student: Dylan W. (dw347)

Status: Submitted | Worksheet Progress: 100.00%

Potential Grade: 10.00/10.00 (100.00%)

Received Grade: 0.00/10.00 (0.00%)

Grading Link: <https://learn.ethereallab.app/assignment/v3/IT202-008-S2025/it202-php-multi-dimension-problems/grading/dw347>

Instructions

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: (2.5 pts.) Problem 1 - Subset

Task #1 (2.50 pts.) - Edit the `processBirds` function to extract prop

Combo Task:

Weight: 100%

Objective: Edit the `processBirds` function to extract properties

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 (includeucid 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)

Image Prompt

Weight: 40%

Details:

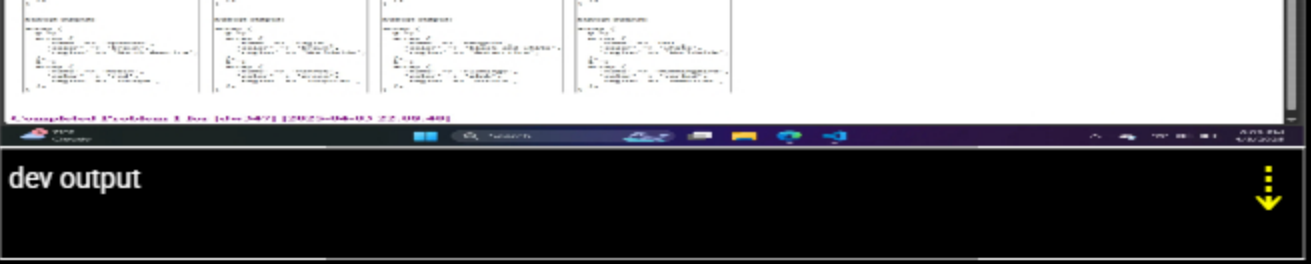
Two screenshots are expected

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

```
31 // Start whiles
32 // Loop through birds as $bird
33 // Create a new array with name, color, and region for each bird
34 $subset[] = 1
35 $name = $bird["name"]
36 $color = $bird["color"]
37 $region = $bird["region"]
38 $subset[] = $name . $color . $region
39 }
40 // End whiles
41 // End script
42
```

code snippet





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Url Prompt

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 #1

https://github.com/dyylan2018/dw347-IT202-008-M6-Homework/public_html/M6/problem1.php



URL

https://github.com/dyylan2018/dw347-IT202-008-M6-Homework/public_html/M6/problem1.php



URL #2

<https://dw347-it202-008-prod-39957dda50b0.herokuapp.com/M6/problem1.php>



URL

<https://dw347-it202-008-prod-39957dda50b0.herokuapp.com/M6/problem1.php>



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Text Prompt

Weight: 40%

Details:

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

Your Response:

This PHP code processes multiple arrays of bird data by extracting only the name, color, and region fields from each bird record and displaying the simplified subset in a structured HTML table. The `processBirds()` function handles this by looping through each bird in the input array, creating a new array with just the required fields, and outputting the result in a readable format. This solution effectively filters out unnecessary information (like `id` and `size`) and presents only the relevant data for easier viewing and analysis.

code snippet



dev output



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Url Prompt

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 #1

https://github.com/dyylan2018/dw347-IT202-008-M6-Homework/public_html/M6/problem2.php



URL

https://github.com/dyylan2018/dw347-IT202-008-M6-Homework/public_html/M6/problem2.php



URL #2

<https://dw347-it202-008-prod-39957dda50b0.herokuapp.com/M6/problem2.php>



URL

<https://dw347-it202-008-prod-39957dda50b0.herokuapp.com/M6/problem2.php>



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Text Prompt

Weight: 40%

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 problem by defining a function `processBirds()` that takes an array of bird data and extracts only the necessary fields—name, color, and region—into a new simplified array called `$subset`. It loops through each bird in the input, builds the subset array, and then displays it in a readable format using `var_export()`. This function is called separately for each of the four bird arrays (`$a1` to `$a4`), and their results are displayed side-by-side in an HTML table, making it easy to compare the simplified bird data across different groups.



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Section #3: (2.5 pts.) Problem 3 - Join

Task #1 (2.50 pts.) - Edit the `joinArrays` function to combine two a

Combo Task:

Weight: 100%

Objective: Edit the `joinArrays` function to combine two arrays based on a common key

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)

≡ Image Prompt

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)

```
// TODO: Implement the logic to join two arrays on the userId property into one joined array
function joinArrays(arr1, arr2) {
  // TODO: Write logic
}
```


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 problem by efficiently joining two arrays, `$users` and `$activities`, based on the `userId` field. It creates a mapping (`$userMap`) of `userId` to user data, allowing quick lookups. Then, it loops through the activities, merging the corresponding user data from `$userMap` with the activity data and storing the results in a new array (`$joined`). This method ensures efficient joining with $O(n + m)$ complexity, avoiding nested loops and providing the correct output by combining user information and their activities.



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Section #4: (2.5 pts.) Misc

Task #1 (0.83 pts.) - Github Details

Combo Task:

Weight: 33.33%

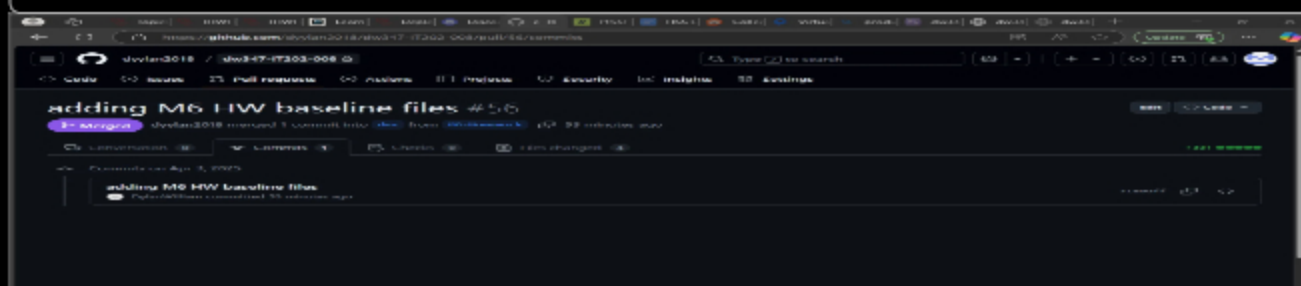
Objective: *Github Details*

≡ Image Prompt

Weight: 60%

Details:

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



commits



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Url Prompt

Weight: 40%

Details:

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

URL #1

<https://github.com/dyylan2018/dw347-IT202-008>



URL

<https://github.com/dyylan2018/dw347-IT202-008>



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Task #2 (0.83 pts.) - WakaTime - Activity

Image Prompt

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



overall



Task #3 (0.83 pts.) - Reflection

Weight: 33.33%

Objective: Reflection

Sub-Tasks:

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

Text Prompt

Weight: 33.33%

Objective: What did you learn?

Details:

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

Your Response:

I learned how to join two arrays, how to extract specific data from arrays to make it their own and more.



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

Text Prompt

Weight: 33.33%

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

Details:

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

Your Response:

problem one where I had to extract specific information to create a new array called subsets. that was the easiest for me.



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

≡ Text Prompt

Weight: 33.33%

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

Details:

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

Your Response:

The hardest part joining two arrays in problem 3. joining two arrays into one array took some time but i got it.



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