

# Submission Worksheet

CLICK TO GRADE

<https://learn.ethereallab.app/assignment/IT202-452-M2024/generic-module-5-multi-dimension-php-problems/grade/dr475>

IT202-452-M2024 - [Generic] Module 5 Multi-Dimension PHP Problems

## Submissions:

Submission Selection

1 Submission [active] 6/23/2024 1:12:28 PM

## Instructions

^ COLLAPSE ^

Overview video: <https://youtu.be/lp568G93Noo>

## Guide:

1. Make sure you're in the dev branch locally and `git pull origin dev` any pending changes.
2. Make a new branch per the recommended branch name below (`git checkout -b ...`).
3. Grab the template code from <https://gist.github.com/MattToegel/f7b0489fb0d8cee615d6626056ac5de2>
4. Create individual PHP files for each problem and save the files inside your `public_html` folder in a subfolder of your choice.
5. Move the unedited template files to GitHub.
  1. `git add .`
  2. `git commit -m "adding template files"`
  3. `git push origin branch_name` (see below)
  4. Create and open a pull request from the homework branch to main (leave it open until later steps).
6. Note: As you work, it's recommended to add/commit at least after each solution is done (i.e., 3+ times in this case).
  1. Make sure the files are saved before doing this.
7. Fill in the items in the worksheet below (save as often as necessary).
8. Once finished, export the worksheet.
9. Add the output file to any location of your choice in your repository folder (i.e., a `Module5` folder).
10. Check that git sees it via `git status`.
11. If everything is good, continue to submit.
  1. Track the file(s) via `git add .`

2. Commit the changes via `git commit` (don't forget the commit message).
3. Push the changes to GitHub via `git push` (don't forget to refer to the proper branch).
4. Create a pull request from the homework related branch to main (i.e., dev <- "homework branch").
5. Open and complete the merge of the pull request (it should turn purple).
6. Locally checkout dev and pull the latest changes (to prepare for future work).
12. Take the same output file and upload it to Canvas.

Branch name: M5-MD-PHP-Problems

Tasks: 6 Points: 10.00

Problem 1 (3 pts.)

^COLLAPSE ^

Task #1 - Points: 1

Text: Problem 1 Evidence

### Details:

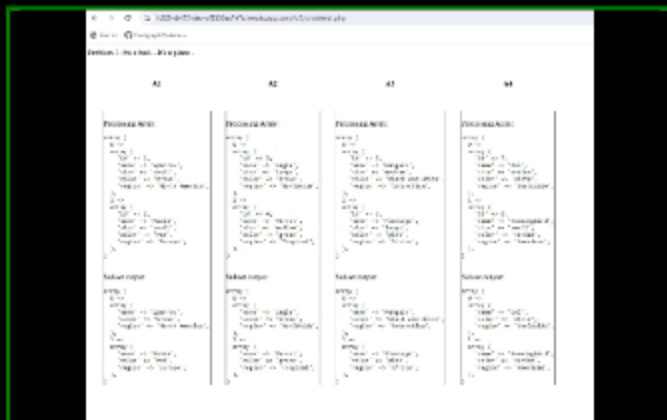
Only make edits where the template code mentions.

Solution should add logic to create a new array with only name, color, and region (subset of the original data)

Requires at least 2 screenshots (code + output from heroku dev)

Live URL must be Heroku Prod

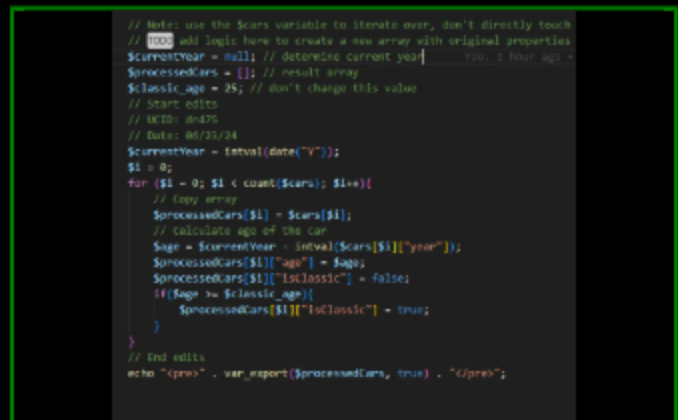
#1) Show the output from heroku dev (url must be visible)



Caption (required) ✓

Describe (highlight what's being shown)

#2) Show the code solution (ucid/date as comment must be present)



Caption (required) ✓

Describe (highlight what's being shown)

Describe/highlight what's being shown  
Problem 1 deployed

URL (required) ✓

URL must be Heroku prod

<https://it202-dr475-prod-7559be2e2ad4.herokuapp.com/problem1.php>

Describe/highlight what's being shown  
Problem 1 code

Explanation (required) ✓

Explain in concise steps how this logically works

PREVIEW RESPONSE

I created a for loop that iterated over the \$birds array that was passed to the function processBirds. For each object in the array, I then initialized the object in the \$subset array and simply just extracted the values required (name, color, region) from the object in the current \$i iteration in the \$birds array.

Problem 2 (3 pts.)

Task #1 - Points: 1

Text: Problem 2 Evidence

Details:

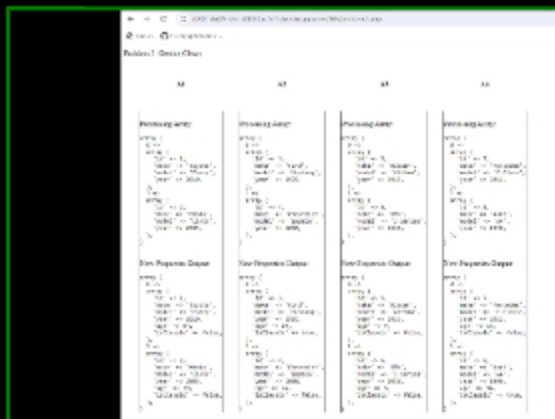
Only make edits where the template code mentions.

Solution should add logic to create a new array with original properties plus age and isClassic (extra data)

Requires at least 2 screenshots (code + output from heroku dev)

Live URL must be Heroku Prod

#1) Show the output from heroku dev (url must be visible)

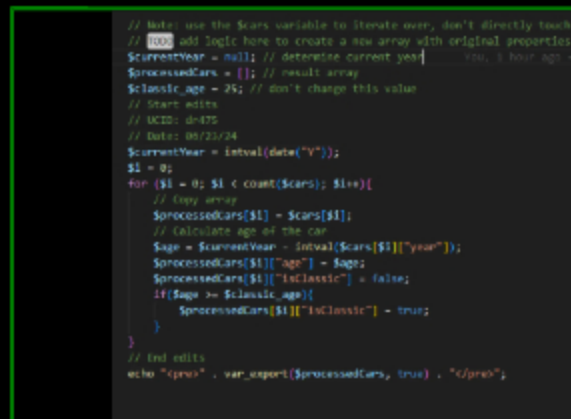


Caption (required) ✓

Describe/highlight what's being shown

Problem 2 deployed on dev

#2) Show the code solution (ucid/date as comment must be present)



Caption (required) ✓

Describe/highlight what's being shown

Problem 2 code

**URL (required) ✓**

URL must be Heroku prod

<https://it202-dr475-prod-7559be2e2ad4.herokuapp.com/problem2.php>

**Explanation (required) ✓**

Explain in concise steps how this logically works

**PREVIEW RESPONSE**

First, I used the date function provided by PHP to get the year -> converted it to an integer to be used later on. Then, I iterated over the \$cars array that was passed into the function processCars and copied the array to the \$processedCars array at the \$i'th iteration since the unmodified key-> value pairs were needed. I then calculated the age of the car by doing \$currentYear - the year of the car. I set a new key value pair in the new array \$processedCars[\$i]["age"] = the age, I set the \$isClassic key value to a boolean false by default, and if the age was calculated to be >= \$classic\_age (25 in this case), the \$isClassic key value pair in the new array was updated to true.

**Problem 3 (3 pts.)**

^COLLAPSE ^

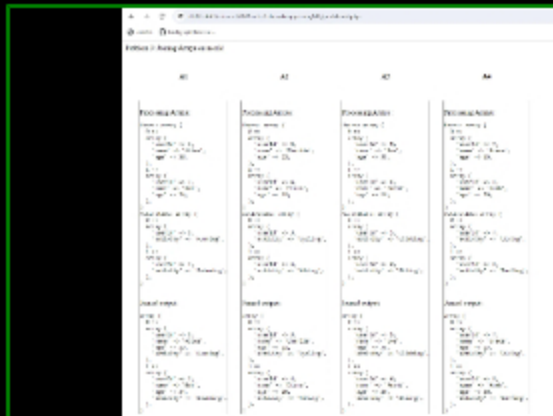
**Task #1 - Points: 1**

Text: Problem 3 Evidence

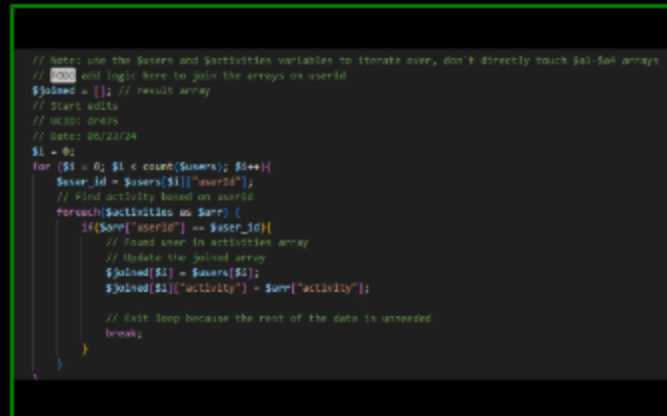
**Details:**

Only make edits where the template code mentions.  
Solution should add logic to join the arrays on userID  
Requires at least 2 screenshots (code + output from heroku dev)  
Live URL must be Heroku Prod

#1) Show the output from heroku dev (url must be visible)



#2) Show the code solution (ucid/date as comment must be present)



**Caption (required)** ✓

Describe/highlight what's being shown

Problem 3 deployed on dev

**URL (required)** ✓

URL must be Heroku prod

<https://it202-dr475-prod-7559be2e2ad4.herokuapp.com/problem3.php>

**Caption (required)** ✓

Describe/highlight what's being shown

Problem 3 code

**Explanation (required)** ✓

Explain in concise steps how this logically works

 **PREVIEW RESPONSE**

I created a for loop that would iterate over the users and extract the user\_id from each array. For each iteration, it would search using a foreach loop the \$activities array to find a matching array that had the userId key set to the required userId. If found, it would create a new object in the joined array which copied the key values from the \$users array and added a new key value pair \$activity -> the users activity value in the \$activities array. After it was found, it would break from the foreach loop since there is no reason to continue searching the \$activities array. At first, I wanted to use the \$i value while iterating over the \$users array to easily access the record in the \$activities, but it does not handle cases where the \$activities array is not in the same order by userId. This solution solves it in  $O(n^2)$  time, which is not the best, but works.



Reflection (1 pt.)

^COLLAPSE ^



Task #1 - Points: 1

Text: Reflect on your experience

^COLLAPSE ^

**i Details:**

Talk about any issues you had, how you resolved them, and anything you learned during this process.

Provide concrete details/examples. At least a few sentences.

Response:

The problems were fairly simple. I haven't used PHP in a while so the issues were just mainly remembering specific built-in PHP functions such as array\_search, array\_filter (I didn't end up using them). I settled for an  $O(n^2)$  solution for Problem 3 using nested for loops which is not the best, but works given the simplicity of the problem and lack of substantial data.

^COLLAPSE ^

## Task #2 - Points: 1

Text: Include the pull request link for this branch

### Details:

The correct link will end with /pull/ and a number.

#### URL #1

<https://github.com/davidredziniak/dr475-IT202-452-M2024/pull/26>

^COLLAPSE ^

## Task #3 - Points: 1

Text: Add Screenshot of Wakatime

### Details:

Note: The duration of time isn't directly related to the grade, the goal is to just make sure time is being tracked

#### Task Screenshots:

Gallery Style: Large View

Small









Medium

Large

> OUTLINE

> TIMELINE

```
[Sun Jun 23 13:09:20 2024] [::1]:62472 [200]: GET /MS/problem2.php
[Sun Jun 23 13:09:20 2024] [::1]:62472 Closing
[Sun Jun 23 13:09:23 2024] [::1]:62473 Accepted
[Sun Jun 23 13:09:23 2024] [::1]:62473 [200]: GET /MS/problem2.php
[Sun Jun 23 13:09:23 2024] [::1]:62473 Closing
```

M5-MD-PHP-Problems   davidredziniak/dr475-IT202-452-M2024#26 needs reviewers  0  0  0  1 hr 16 mins  dr475  dr475

End of Assignment