Submission Worksheet

Submission Data

Course: IT114-450-M2025
Assignment: IT114 Java Problems
Student: Daniel C. (dvc2)
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 12:12:58 AM
Updated: 6/10/2025 1:42:46 AM
Grading Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/grading/dvc2
View Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/view/dvc2

Instructions

- Overview Link: https://youtu.be/Mrahk6SFYao

1. Ensure you read all instructions and objectives before starting.
2. Create a new branch from `main` called `M2-Homework`
    1. `git checkout main` (ensure proper starting branch)
    2. `git pull origin main` (ensure history is up to date)
    3. `git checkout -b M2-Homework` (create and switch to branch)
3. Copy the template code from here: GitHub Repository - M2 Homework
    - It includes Problems 1-4 and a BaseClass. Put all into an `M2` folder or similar (adjust `package` reference at the top if you chose a different folder name).
    - Immediately record to history
        - `git add .`
        - `git commit -m "adding M2 HW baseline files"`
        - `git push origin M2-Homework`
        - Create a Pull Request from `M2-Homework` to `main` 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 M2-Homework`
    4. On Github merge the pull request from `M2-Homework` to `main`
7. Upload the same PDF to Canvas
8. Sync Local
    1. `git checkout main`

```
2. git pull origin main
```

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

Progress: 100%

≡ Task #1 (2 pts.) - Edit the `printOdds` method to output odd values of the array

Progress: 100%

Details:

- Only make edits where noted via provided comments
- Challenge: Print odd values only in a single line separated by commas
- 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

2 Screenshots are attached for the requirement.

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Part 2:

Progress: 100%

Details:
Direct link to the file in the homework related branch from Github (should end in `.java`)

URL #1
https://github.com/dcarch2/dvc2-it114-Spring2025-M2-Homework/M2/Problem1.java

URL
https://github.com/dcarch2/dvc2-

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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:

How the code solves the challenge goes like this: it loops through the array adding only the odd numbers to a string with commas and finaly printing the result in a single line which solves the challenge fully.

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

Progress: 100%

Task #1 (2 pts.) - Edit the `sumValues` method to sum the array values and present them in a format with exactly two decimal places

Progress: 100%

Details:

- Only make edits where noted via provided comments
- Challenge 1: Sum all the values of the passed in array and assign to `total`
- Challenge 2: Have the sum be represented as a number with exactly 2 decimal
- Example: 0.1 would be shown as 0.10, 1 would be shown as 1.00, etc
- 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

```
Total Modified Value: 5.00
```

```java
        // Start Solution Edits
        // Solve Challenge 1 here
        // Step 1: Loop through the array to sum all the values into "total" dvc2 6/9/2025
        for (double val : arr) {
            total += val;
        }


        // Solve Challenge 2 here
        // Step 2: Formats the total to precisely 2 decimal places and assigns it to "modifiedTotal" dvc2 6/9/2025
        String modifiedTotal = String.format("%.2f", total);

        // End Solution Edits
```

Added the 2 screenshots for the requirement.

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Part 2:

Progress: 100%

Details:
Direct link to the file in the homework related branch from Github (should end in `.java`)

URL #1
https://github.com/MattToegel/IT114-2025-Module2-Homework/M2/Problem2.java

URL
https://github.com/MattToegel/IT

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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:

How the code solves the challenge goes like this: it sums up the array values and formats the result to exactly two decimal places using String.format() which solves the challenge fully.

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

Progress: 100%

Task #1 (2 pts.) - Edit the `bePositive` method to make each value positive, convert it back to the orginal data type, and set it to the proper slot in the `output` array

Progress: 100%

Details:

- Only make edits where noted via provided comments
- Challenge 1: Make each value positive
- Challenge 2: Convert the values back to their original data type and assign it to the proper slot of the `output` 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

Added the 2 screenshots for the requirement.

Saved: 6/10/2025 12:54:41 AM

Part 2:

Progress: 100%

Details:
Direct link to the file in the homework related branch from Github (should end in `.java`)

URL #1
https://github.com/dcarch2/dvc2-it114-Spring2025/M2-Homework/M2/Problem3.java

URL
https://github.com/dcarch2/dvc2-

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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:

How the code solves the challenge goes like this: it loops through each value and converts it to its original type, makes it positive by using Math.abs() and finally storing it in the output array which solves the challenge fully.

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

Progress: 100%

Task #1 (2 pts.) - Edit the `transformText` method to solve the challenges

Progress: 100%

Details:

- Only make edits where noted via provided comments
- Challenge 1: Remove non-alphanumeric characters except spaces
- Challenge 2: Convert text to Title Case
- Challenge 3: Trim leading/trailing spaces and remove duplicate spaces
- Result 1-3: Assign final phrase to `placeholderForModifiedPhrase`
- 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

Added 2 screenshots for the requirement.

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Part 2:

Progress: 100%

Details:
Direct link to the file in the homework related branch from Github (should end in `.java`)

URL #1
https://github.com/dcarch2/dvc2-
it114-450/M2-Homework/M2/Problem4.java

URL
https://github.com/dcarch2/dvc2-

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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:

How the code solves the challenge goes like this: it removes unwanted characters, trims and normalizes the spacing, and then finally it converts each phrase to proper title case before displaying the result which solves the challenge fully.

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Task #2 (+ 1.11 pts.) - Edit the `transformText` method to solve the extra credit challenge (challenge 4)

Progress: 100%

Details:

- Only make edits where noted via provided comments
- Challenge 4: Extract middle 3 characters (beginning starts at middle of phrase)
- Assign result to 'placeholderForMiddleCharacters'
- If not enough characters assign "Not enough characters"
- 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

Added the 2 screenshots for the requirement.

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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:

How the code solves the challenge goes like this: it finds the middle of the phrase and extracts 3 chars or returns a message if the given phrase is too short which solves the challenge fully.

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Section #5: (2 pts.) Misc

Progress: 100%

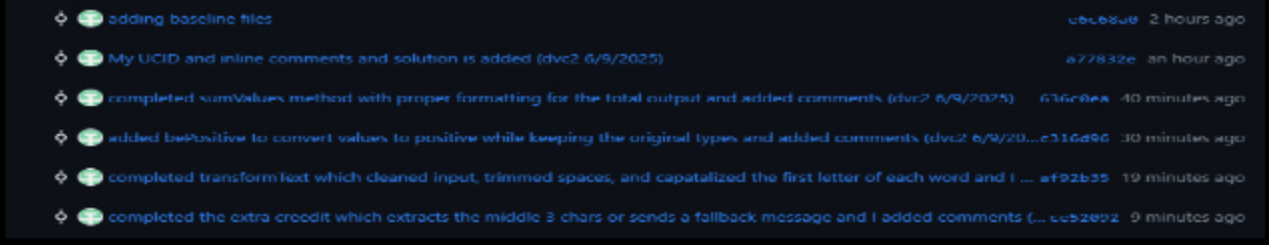
Task #1 (0.67 pts.) - Github Details

Progress: 100%

Part 1:

Progress: 100%

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



Added the screenshot.

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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/dcarch2/dvc2-
it114

URL
https://github.com/dcarch2/dvc2-

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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

Added the screenshot, not sure why the time is not being displayed?

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Task #3 (0.67 pts.) - Reflection

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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 how to format different types of data using Java (arrays, strings, and integers/floats). I also got better at working with formatting outputs for my solutions and using logic to solve specific coding challenges. All-in-all I became more comfortable using Github and submitting assignments through branches via pull requests.

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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 definitely solving and commiting all of the the comments and solutions after problem 1 because at that point I had gotten the hang of it. Getting all of the URLs and screenshots for the submissions was also easy.

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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 definitely trying to get Problem 1 solutions to work and making sure they were commiting properly. Creating a new module for M2 also gave me difficulty and I had to figure out multiple solutions to make sure I was commiting to the proper branch as it was not working at first. Problem 4 was also the most difficult to complete out of all the assignment's problems.

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