Course: IT114-010-S2025
Assignment: IT114 Java Problems
Student: Matt T. (mt85)
Status: Submitted | Worksheet Progress: 100.00%
Potential Grade: 10.10/10.00 (101.00%)
Received Grade: 0.00/10.00 (0.00%)
Grading Link: https://learn.ethereallab.app/assignment/v3/IT114-010-S2025/it114-java-problems/grading/mt85

Instructions

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

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

Combo Task:

Weight: *100%*
Objective: *Edit the `printOdds` method to output odd values of the array*

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)

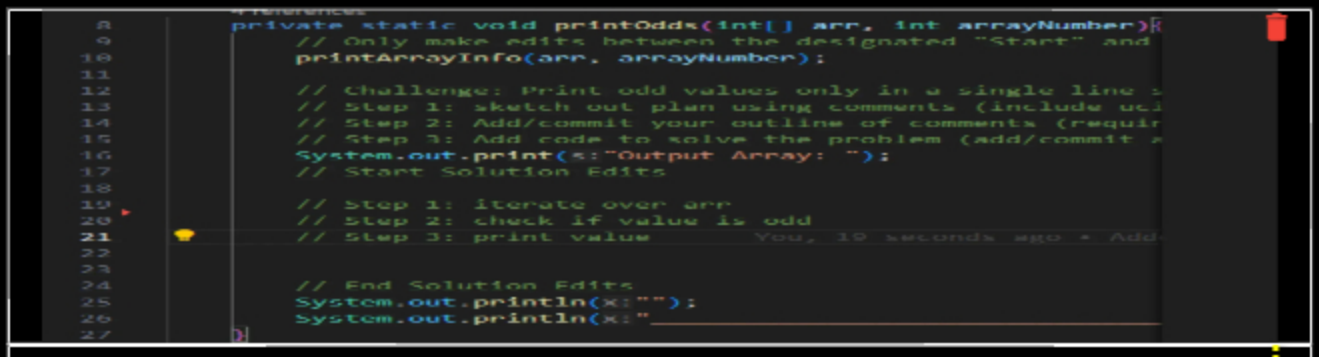
Item:#1

Weight: *40%*

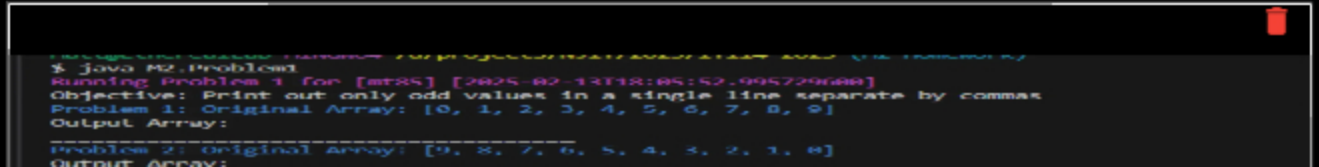
Details:
Two screenshots are expected

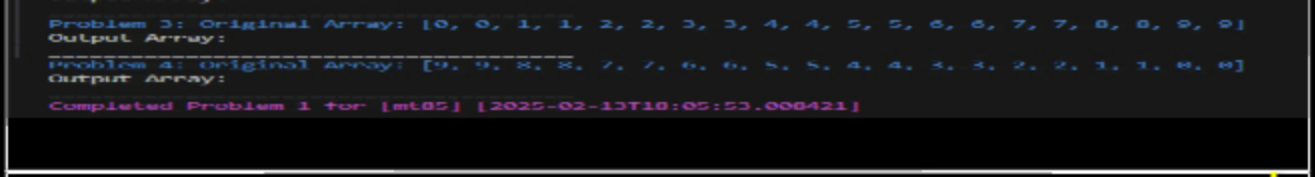
1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program

Image Prompt



showing code for problem 1





Showing output for problem 1

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Item:#2

Weight: *20%*

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

Url Prompt

URL #1
https://github.com/MattToegel/IT114-2025-M2-Homework/M2/Problem1.java

URL
https://github.com/MattToegel/IT1

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Item:#3

Weight: *40%*

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

Text Prompt

Your Response:

I used xyz to check that it's odd and used abc to print it

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

Task #1 (2 pts.) - Edit the `sumValues` method to sum the array val

Combo Task:

Weight: *100%*
Objective: *Edit the `sumValues` method to sum the array values and present them in a format with exactly two decimal places*

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)

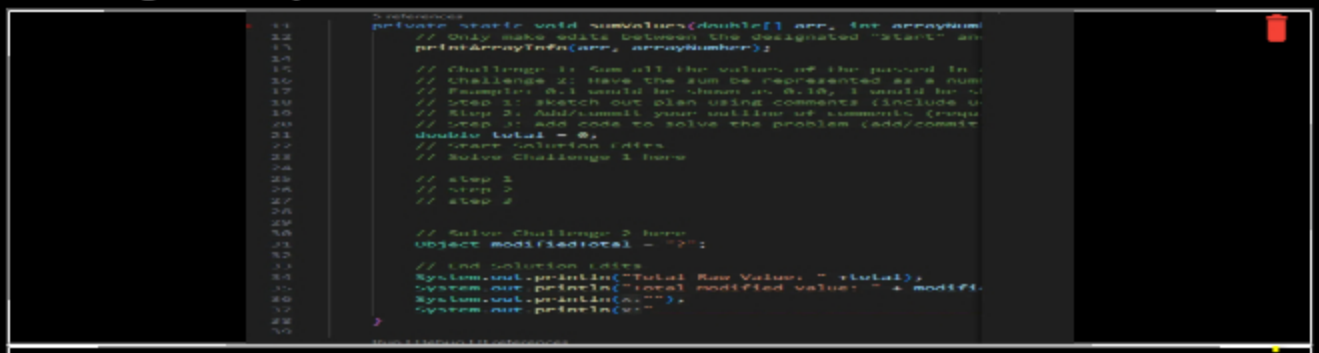
Item:#1

Weight: *40%*

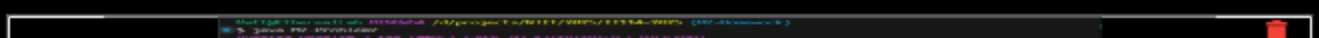
Details:
Two screenshots are expected

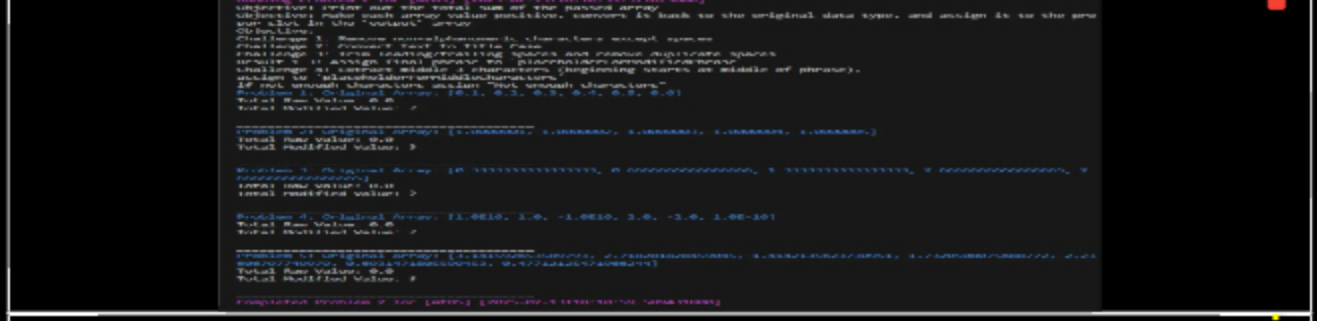
1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program

Image Prompt



Showing code for p2





Showing execution of p2

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Item:#2

Weight: *20%*

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

Url Prompt

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

https://github.com/MattToegel/IT1

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Item:#3

Weight: *40%*

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

Text Prompt

Your Response:

qwe

Saved: 2/13/2025 6:11:30 PM

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

Task #1 (2 pts.) - Edit the `bePositive` method to make each value p

Combo Task:

Weight: *100%*
Objective: *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*

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)

Item:#1

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

Image Prompt

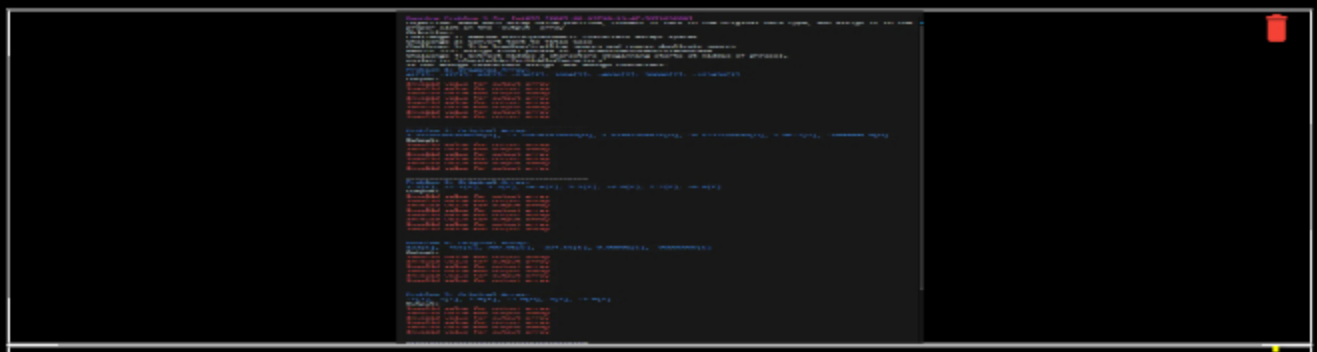
```
3 references
private static void beNositive(Object[] arr, int arrayNumber) {
    // Only make edits between the designated "Start" and "End" comments
    printArrayInfo(arr, arrayNumber);

    // 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)        You, 14 m
    Object[] output = new Object[arr.length];
    // Start Solution Edits

    // step 1
    // step 2
    // step 4

    // End Solution Edits
    System.out.println(x:"Output: ");
    printOutputWithType(output);
    System.out.println(x:"");
    System.out.println(x:"_____");
}
```

showing code for p3



Showing output for p3

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Item:#2

Weight: *20%*

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

Url Prompt

URL #1
https://github.com/MattToegel/IT114-2025-M2-Homework/M2/Problem3.java

URL
https://github.com/MattToegel/IT1

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Item:#3

Weight: *40%*

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

Text Prompt

Your Response:

qweqwewq ewqe qwe

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

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

Combo Task:

Weight: *100%*
Objective: *Edit the `transformText` method to solve the challenges*

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)

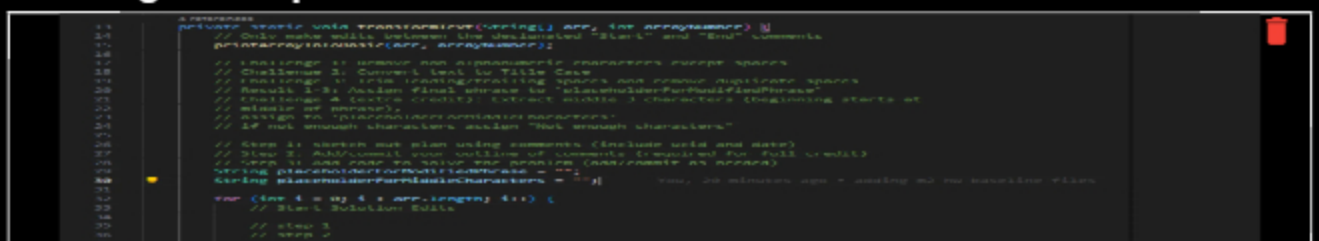
Item:#1

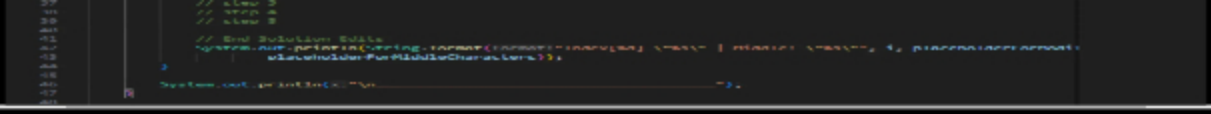
Weight: *40%*

Details:
Two screenshots are expected

1. Snippet of relevant code showing solution (with ucid/date comment)
2. Full output of executing the program

Image Prompt





showing code for p4

showing output for p4

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Item:#2

Weight: *20%*

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

Url Prompt

URL #1
https://github.com/MattToegel/IT114-2025-M2-Homework/M2/Problem4.java

URL
https://github.com/MattToegel/IT1

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Item:#3

Weight: *40%*

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

Text Prompt

Your Response:

xyz solves challenge 1 by ...

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Task #2 (+ 0.90 pts.) - Edit the `transformText` method to solve the

Combo Task:

Weight: *45%*
Objective: *Edit the `transformText` method to solve the extra credit challenge (challenge 4)*

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)

Item:#1

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

Image Prompt

Missing Caption

Not saved yet

Item:#3

Weight: *50%*

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

Text Prompt

Your Response:

Missing Response

Not saved yet

Section #5: (2 pts.) Misc

Task #1 (0.67 pts.) - Github Details

Combo Task:

Weight: *33.33%*
Objective: *Github Details*

Item:#1

Weight: *60%*

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

Image Prompt

showing I have most appropriate commits

Saved: 2/13/2025 6:24:13 PM

Item:#2

Weight: *40%*

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

Url Prompt

URL #1
https://github.com/MattToegel/IT114-2025/

URL
https://github.com/MattToegel/IT1

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Task #2 (0.00 / 0.67 pts.) - WakaTime - Activity

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

Image Prompt

showing overall time

Showing individual time

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Task #3 (0.00 / 0.67 pts.) - Reflection

Sub-Tasks:

Task #1 (0.00 / 0.33 pts.) - What did you learn?

Weight: *33.33%*
Objective: *What did you learn?*

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

Text Prompt

Your Response:

tfgyhkjlll

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Task #2 (0.00 / 0.33 pts.) - What was the easiest part of the a

Weight: *33.33%*
Objective: *What was the easiest part of the assignment?*

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

Text Prompt

Your Response:

qwewqe

Saved: 2/13/2025 6:27:23 PM

Task #3 (0.00 / 0.33 pts.) - What was the hardest part of the a

Weight: *33.33%*
Objective: *What was the hardest part of the assignment?*

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

Text Prompt

Your Response:

qwe qew

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