Course: IT114-010-S2025

Assignment: IT114 Java Problems

Student: Lamia R. (Ir357)

Status: Submitted | Worksheet Progress: 110.00%

Potential Grade: 11.00/10.00 (110.00%) Received Grade: 0.00/10.00 (0.00%)

Grading Link: https://learn.ethereallab.app/assignment/v3/IT114-010-S2025/it114-java-problems/grading/lr357

Instructions

- 1. Ensure you read all instructions and objectives before starting.
- 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)
 - 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

gιτ	add	•									
git	comn	nit	$-\mathbf{m}$	"adding	M2	HW	baseline	files"			
git push origin M2-Homework											
Crea	te a P	ull R	leau	est from M	2-H	omev	work to mai	n and keep it ope			

- 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)
- 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







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Item:#2

Weight: 20%

Details:

Direct link to the file in the homework related branch from Github (should end in . j ava)

Url Prompt

URL #1

https://github.com/Lamiaa13/LR357-It114b0db0/M2-Homework/M2/Problem1.java



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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:

the code solves the challenge by looping through the array, checking if each number is odd (num % 2=10), and printing only the odd numbers in a single line, separated by commas. A flag ensures proper comma placement.

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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

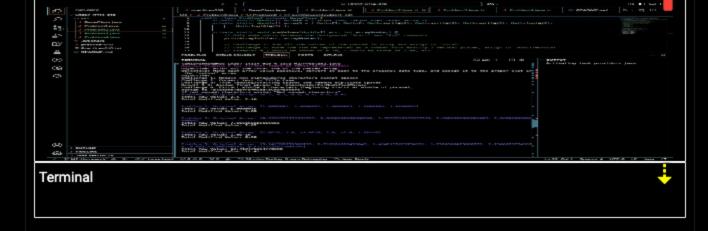
Weight: 40%

Details:

Two screenshots are expected

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







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Item:#2

Weight: 20%

Details:

Direct link to the file in the homework related branch from Github (should end in . j ava)

≡, Url Prompt

URL #1

https://github.com/Lamiaa13/LR357-It114b0db0/M2-Homework/M2/Problem2.java



https://github.com/Lamiaa13/LR35



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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:

The code sums all values in the array and formats the total to two decimal places for accurate output.



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

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

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

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





Terminal

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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/Lamiaa13/LR357-It114<u>bl0lbl/M2-Homework/M2/Problem3.java</u>



https://github.com/Lamiaa13/LR35

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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:

The code makes all numbers positive while keeping their original type by checking each value, applying Math.abs(), and converting numeric strings if needed.

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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







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Item:#2

Weight: 20%

Details:

Direct link to the file in the homework related branch from Github (should end in . j ava)

Url Prompt

URL #1

https://github.com/Lamiaa13/LR357-



https://github.com/Lamiaa13/LR35

It114b0db0/M2-Homework/M2/Problem4.java



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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:

The code cleans the text, converts it to Title Case, removes extra spaces, and extracts the middle 3

characters, ensuring proper formatting.



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





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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:

The code cleans the text, converts it to Title Case, removes extra spaces, and extracts the middle 3 characters, ensuring proper formatting.



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Section #5: (2 pts.) Misc

Task #1 (0.67 pts.) - Github Details

Combo Task:

Weight: 33.33%

Objective: Github Details

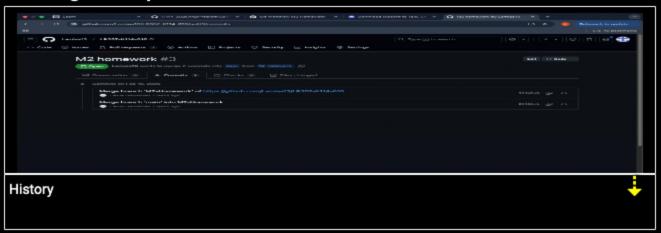
Item:#1

Weight: 60%

Details:

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

Image Prompt



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Item:#2

Weight: 40%

Details:

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

Url Prompt

URL #1

https://github.com/Lamiaa13/LR357-It114e0167q=is%3Apr+is%3Aclosed



https://github.com/Lamiaa13/LR35

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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



Wakatime



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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:

You learned how to filter data, format output, clean text, and manipulate strings and numbers.



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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:

Problem 1 was the easiest one.



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

Weight: 33.33%

Objective: What was the hardest part of the assignment?

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

Text Prompt

Your Response:

Problem 4 was the hardest. Software was hardest to deal with.



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