Submission Worksheet

Submission Data

Course: IT114-450-M2025

Assignment: IT114 Java Problems
Student: Mukaddis I. (mi348)

Status: Submitted | Worksheet Progress: 100+%

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

Started: 6/8/2025 1:28:28 PM Updated: 6/8/2025 2:21:58 PM

Grading Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/grading/mi348

View Link: https://learn.ethereallab.app/assignment/v3/IT114-450-M2025/it114-java-problems/view/mi348

Instructions

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

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

Progress: 100%

Progress: 100%

Part 1:

Progress: 100%

Details:

Two screenshots are expected

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

This shows the code with UCID and steps

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Part 2:

Progress: 100%

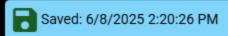
Details:

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

URL #1

https://github.com/MIsmail215/mi348-IT11**445**0/nain/M2-Homework/Problem1.java





=, 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:

The code looks at each number in the array one by one. If the number is odd it prints that number.

It also makes sure to put commas between the numbers, but not before the first one. This way, the odd numbers are printed in one line, with commas in between, like this: 1, 3, 5, 7, 9.



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

array values and present them in a format with exactly two decimal places

Progress: 100%

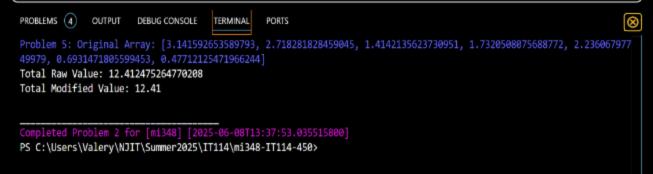
■ Part 1:

Progress: 100%

Details:

Two screenshots are expected

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





prints both versions.

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

value positive, convert it back to the orginal data type, and set it to the proper slot in the 'output' array

□ Part 1:

Progress: 100%

Details:

Two screenshots are expected

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

```
// Check middle | Double we/Maryands | Inc. | Inc.
```

Shows code and UCID

Shows output



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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/MIsmail215/mi348-

IT1144450/nain/M2-Homework/Problem3.java



UΗ

https://github.com/MIsmail215/rr



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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:

The code loops through each item in the array, checks its type (like Integer, Double, Float, or String), and converts any negative value to positive using Math.abs(). Then it puts the positive value back into the output array in its original type so the result stays consistent with the input format.



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

Progress: 100%

Progress: 100%

Part 1:

Progress: 100%

Details:

Two screenshots are expected

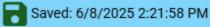
- Snippet of relevant code showing solution (with ucid/date comment)
- Full output of executing the program

```
Shows code and UCID

Index[0] "Helio World" | Middle: "ob"

Index[2] "This is A Title Case Test" | Middle: "itl"
Index[3] "Middle account | Middle account | Mi
```

Shows Output



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/MIsmail215/mi348-



IT114H450main/M2-Homework/Problem4.java



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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:

I first removed all non-alphanumeric characters except spaces using a regular expression. Then I trimmed the extra spaces and used string methods to convert the phrase into title case. Finally, I stored the cleaned-up result into the placeholder variable so it could be printed correctly.



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

Progress: 100%

Part 1:

Progress: 100%

Details:

Two screenshots are expected

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

```
String placeholderForMiddleCharacters;
int len - placeholderForModifiedPhrase.length();
if (len >= 3) {
     int mid = len / 2;
     if (len % 2 == 0) mid--;
     if (mid - 1 >= 0 && mid + 2 <= len)
         placeholderForMiddleCharacters = placeholderForModifiedPhrase.substring(mid - 1, mid + 2);
     placeholderForMiddleCharacters = "Not enough characters";
     placeholderForMiddleCharacters = "Not enough characters";
System.out.println(String.format(format:"Index[%d] \"%s\" | Middle: \"%s\"", i, placeholderForModifiedPhrase, placeholderForMidd
                                                                         Extra credit Code
tndex[0] "Heilo World" | Middle: "o W"
Index[1] "Java Programming" | Middle: "rog"
Index[2] "This is A Title Case Test" | Middle: "itl"
Index[3] "Capitalize Every Word" | Middle: "e E"
Index[4] "Mixed Case Insut" | Middle: "Cas"
```

roblem 3: Original Array: [hello world , java programming , extra spaces between words , ultiple spaces] Problem 4: Original Array: [hello sorld, java programming, short, a, even]
Index[9] "Hello world" | Middle: "o w"
Index[1] "Java Programming" | Middle: "rog"
Index[2] "Short" | Middle: "hor"
Index[3] "A" | Middle: "Not enough characters"
Index[4] "Cvem" | Middle: "Eve"

Extra Credit Output



₽ 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:

the code checks if the cleaned-up phrase is at least 3 characters long. If it is, it calculates the middle index and extracts 3 characters starting from one position before the middle. If the phrase is too short, it sets the result to "Not enough characters".



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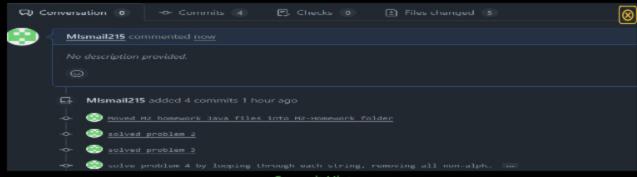
Section #5: (2 pts.) Misc

Progress: 100%

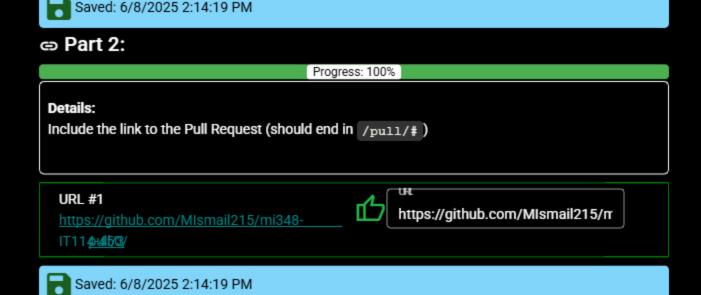
Part 1:

Progress: 100%

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



Commit History

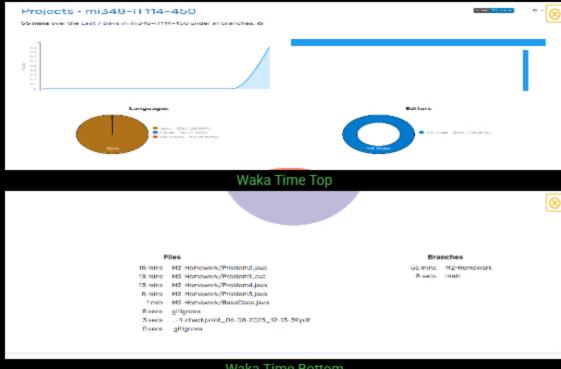


Task #2 (0.67 pts.) - WakaTime - Activity

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



Waka Time Bottom

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:

In this assignment, I learned how to work with arrays and different data types in Java, such as integers, doubles, floats, and strings. I practiced solving problems by writing code to transform data, format output, and handle special conditions like removing characters or formatting strings. I also gained experience using Git to track my changes and organize my work properly.



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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 this assignment was Problem 1 because I just had to find and print the odd numbers. I used a simple loop and checked if each number was odd. It was quick and not confusing at all.



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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:

Problem 4 because it involved multiple steps like removing special characters, fixing spaces, changing to title case, and doing extra credit. It took more time to figure out how to clean and format the strings properly.



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