

Submission Worksheet

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<https://learn.ethereallab.app/assignment/IT114-004-S2024/it114-m2-java-problems/grade/zb64>

IT114-004-S2024 - [IT114] M2 Java Problems

Submissions:

Submission Selection

1 Submission [active] 2/7/2024 8:19:39 PM

Instructions

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Guide:

- 1 .Make sure you're in the main branch locally and ``git pull origin main`` 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/fdd2b37fa79a06ace9dd259ac82728b6>
- 4 .Create individual Java files for each problem and save the files inside a subfolder of your choice
 - 1 .The should end with the file extension in lowercase .java
- 5 .Move the unedited template files to github
 - 1 ``git add .``
 - 2 ``git commit -m "adding template files``
 - 3 ``git push origin <homework branch>`` (see below and don't include the `< >`)
 - 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 Module2 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., main `<- "homework branch"`)
 - 5 .Open and complete the merge of the pull request (it should turn purple)
 - 6 .Locally checkout main and pull the latest changes (to prepare for future work)
- 12 Take the same output file and upload it to Canvas
 - 1 .*This step is new since GitHub renders the PDF as an image the links aren't clickable so this method works better
 - 2 .*Remember, the github process of these files are encouragement for your tracking of your progress

Tasks: 8 Points: 10.00

Problem 1 (3 pts.)

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Task #1 - Points: 1

Text: Screenshot of the Problem 1 Solved Code and Output

Details:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have only the odd values output.
Requires at least 2 screenshots (code + output from terminal)

Checklist

*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Edits were done only in the processArray() method and original template code/comments remain untouched
<input type="checkbox"/> #2	1	Only arr is used (no direct usage of a1, a2, a3, a4)
<input type="checkbox"/> #3	5	Only odd values output (not odd indexes/keys)
<input type="checkbox"/> #4	1	Includes code comments with student's ucid and date
<input type="checkbox"/> #5	1	Terminal output is fully visible

Task Screenshots:

☐ Large Gallery


Checklist Items (3)

#1 Edits were done only in the processArray() method and original template code/comments remain untouched

#2 Only arr is used (no direct usage of a1, a2, a3, a4)

#4 Includes code comments with



Checklist Items (2)

#3 Only odd values output (not odd indexes/keys)

#5 Terminal output is fully visible

This is the output once the code is ran.

This is the code for problem 1.

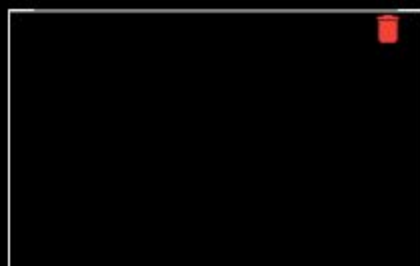


Checklist Items (2)

#3 Only odd values output (not odd indexes/keys)

#5 Terminal output is fully visible

Checklist Items (0)



This is the second half of the code output.

Missing Caption

Task #2 - Points: 1

Text: Explain your solution

Checklist

*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Clearly explains how the code/logic solves the problem (mentions how the odd values are determined)

Response:

For each element in the arr array of int are going to follow the if statement that if the element remainder is not 0 (which means even) then going to the next step of being printed out and if it is an even number/remainder is 0 then it steps out the if loop and continues onto the next element.

Problem 2 (3 pts.)

Task #1 - Points: 1

Text: Screenshot of the Problem 2 Solved Code and Output

Details:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have its values summed AND the final result converted to two decimal places (i.e., 0.10, 1.00, 1.01).
Requires at least 2 screenshots (code + output from terminal)

Checklist

*The checkboxes are for your own tracking

#	Points	Details

<input type="checkbox"/> #1	1	Edits were done only in the getTotal() method and original template code/comments remain untouched (unless noted)
<input type="checkbox"/> #2	1	Only arr is used (no direct usage of a1, a2, a3, a4)
<input type="checkbox"/> #3	5	Passed in array's values get summed AND rounded to two decimal places like currency (i.e., 0.00, 0.10, 1.10)
<input type="checkbox"/> #4	1	Includes code comments with student's ucid and date
<input type="checkbox"/> #5	1	Terminal output is fully visible

Task Screenshots:

☐ Large Gallery



Checklist Items (4)

#1 Edits were done only in the getTotal() method and original template code/comments remain untouched (unless noted)

#2 Only arr is used (no direct usage of a1, a2, a3, a4)

#3 Passed in array's values get summed AND rounded to two decimal places like currency (i.e., 0.00, 0.10, 1.10)

#4 Includes code comments with student's ucid and date

This is the code for problem 2.



Checklist Items (1)

#5 Terminal output is fully visible

This problem 2 output.



^ COLLAPSE ^

Task #2 - Points: 1

Text: Explain your solution

Checklist

*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Clearly explains how the code/logic solves the problem (mentions both how the values get summed and how the rounding is solved correctly)

Response:

For each element in the arr array double is going to follow being added with the variable total. Then in the print

statement, this is going to be where the sum from the variable total is going to follow the format of being rounded and having a float with 2 numbers after the decimal.

Problem 3 (3 pts.)

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Task #1 - Points: 1

Text: Screenshot of the Problem 2 Solved Code and Output

Details:

Only make edits where the template code mentions.

Solution should ensure that any passed in array will have its values converted to a positive version of the value AND converted back to the original data type.
Requires at least 2 screenshots (code + output from terminal)

Checklist

*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Edits were done only in the bePositive() method and original template code/comments remain untouched
<input type="checkbox"/> #2	1	Only arr is used (no direct usage of a1, a2, a3, a4)
<input type="checkbox"/> #3	5	Passed in array's values will get converted to a positive version AND converted back to the original data type
<input type="checkbox"/> #4	1	Includes code comments with student's ucid and date
<input type="checkbox"/> #5	1	Terminal output is fully visible

Task Screenshots:

☐ Large Gallery



Checklist Items (4)

#1 Edits were done only in the bePositive() method and original template code/comments remain untouched

#2 Only arr is used (no direct usage of a1, a2, a3, a4)

#3 Passed in array's values will get converted to a



Checklist Items (4)

#1 Edits were done only in the bePositive() method and original template code/comments remain untouched

#2 Only arr is used (no direct usage of a1, a2, a3, a4)

#3 Passed in array's values will get converted to a

converted to a
positive version
AND converted back
to the original data
type

#4 Includes code
comments with
student's ucid and
date

converted to a
positive version
AND converted back
to the original data
type

#4 Includes code
comments with
student's ucid and
date

This is the code for problem 3.

This the second half of the code from problem 3.

A screenshot of a code editor with a dark background. It shows Java code for problem 3, including a for loop and conditional logic for handling different data types (Integer, Double, String). The code is partially obscured by a red box in the top right corner.

Checklist Items (1)

#5 Terminal output
is fully visible

This is the output once the code is ran.



^ COLLAPSE ^

Task #2 - Points: 1

Text: Explain your solution

Checklist

*The checkboxes are for your own tracking

#	Points	Details
<input type="checkbox"/> #1	1	Clearly explains how the code/logic solves the problem (mentions both the conversion to positive and conversion to original data type)

Response:

This for loop is going to start from the beginning of the array, the loop is going to continue until it reaches the length of the arr array and is going to go in the interval of 1. It is going to check and see if the value that was stored in the index i is either an integer, double, or a string. Once it checks to see if the value is either of those options then it's going to follow the next line of being turned to a positive number by finding the absolute value of the number. To get the original data type the print statement that i.getClass gets the class of i and getSimpleName gets the simple name of the class and substring(0,1) means that it's going to get the first letter from the simple name of the class as a String type.



Reflection (1 pt.)

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Task #1 - Points: 1

Text: Reflect on your experience

Details:

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

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

Provide concrete details/examples.

Response:


One of the problems that I had was trying to figure out how to round and get the 2 numbers after the decimal point. I went to StackOverflow and it explained me the format of how to get the rounded float and its format. A thing that I learned how to go through different types of objects find numbers and convert them into a positive number.



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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

Missing URL

End of Assignment