

Task 18.02.2025

Task 1: Remove Negative Numbers from a List

Requirements:

- Create a method `removeNegativeNumbers(List<Integer> list)`.
- The method should use `removeIf` to remove all negative numbers from the list.
- The cleaned list should be printed in main using `forEach`.
- Use an `ArrayList` and fill it with 10 numbers.

Task 2: Remove All Words with Less Than 5 Characters

Requirements:

- Create a method `removeShortWords(List<String> list)`.
- Use `removeIf` to remove all strings with fewer than 5 characters.
- The method should be called in main, and the result should be printed using `forEach`.
- Use an `ArrayList` and fill it with 6 strings.

Task 3: Remove Words Containing a Specific Character

Requirements:

- Create a method `removeWordsContainingChar(List<String> list, char character)`.
- The method should use `removeIf` to remove all words that contain the given character.
 - Example: If `character = 'L'` and the `ArrayList` contains "Hello", "Hello" should be removed because it contains two 'L's.
- The cleaned list should be printed using `forEach`.
- Use an `ArrayList`, fill it with 6 strings, and test the method 2–3 times with different characters when calling the method.

Task 4 (Hard): Replace All Even Numbers with Half Their Value

Requirements:

- Create a method `halveEvenNumbers(List<Integer> list)`.
- Use `replaceAll` to replace every even number with half its value (e.g., $8 \rightarrow 8 / 2 = 4$).
- Inside a Lambda expression after `->`, you can use `{}` to add an if condition and return the appropriate value.
- The method should be called in main, and the result should be printed using `forEach`.
- Use an `ArrayList` and fill it with 10 numbers.

Mandatory: Independent Learning

Write down the chapters or topics you have worked on here:

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