CSED232 Assignment 1

Due Friday, February 28

Problem 1: Expression Add Operators

- Given two non-negative numbers, a and b, we want to check whether b is equivalent to an expression obtained by inserting the '+' and '-' operators (or by concatenating digits) between the digits in a. For example:

  - If $a = 1234$ and $b = 20$, the result is true since $1 + 23 - 4 = 20$.

  Implement the function `solve` in the `ExpressionAddOperator` class. See the comments in the file for more details.

Problem 2: English Number Translator

- Implement the following method in the `EnglishNumberTranslatorTest` class to convert a number into words in English. See the comments in the file for more details.

  - `String toWords(long number)`

Instructions

1. Make your code as easy to read and understand as possible. You can add more (private) methods (e.g., to avoid duplicate code) if you want.

2. The `src/main` directory contains the skeleton code. You should implement all methods marked with *TODO* in the above classes.

3. The `src/test` directory contains some test cases. You can check them by running the classes in `src/test`. (For grading, we may use additional test cases.)

4. Click on the following link, authorize GitHub Classroom (if you have not already done so), and accept the assignment: `https://classroom.github.com/a/aD3QDq0h`

5. Your assignment repository should now be created. Clone the repository, complete your homework, and push the changes to GitHub before the deadline.

Java Reference

- Java Language Specification: `https://docs.oracle.com/javase/specs/`

- Learn Java: `https://dev.java/learn/`

- Core Java, Volume I: Fundamentals 13th by Cay S. Horstmann, Pearson, 2024 (available online at the POSTECH digital library `http://library.postech.ac.kr`)