Requirements: Given a sequence of integers the program will present the user with a console allowing him to execute basic mathematical operations on all numbers in the sequence.

Input: The program should accept a single command line parameter with one or mare integer numbers, separated by semicolons. Once the program has started, and after each command is executed, it prompts user to enter a command. In case of an invalid input, the output can be arbitrary. Output: After each command is executed, program presents user with the resulting sequence. Supported operations:

All commands are executed on each element of the sequence individually. Program will support following commands:

- +X -adds X to each element in the sequence
- *X –multiplies each element in the sequence by X
- %X -modulo operation, replaces each element in the sequence with a reminder of its division by X
- undo –reverts effects on the last command
- quit – terminates the program

Where X stands for non-negative integer.

Tips: Focus on proper design, and extensible architecture. Using design patters and creating unit tests will affect your final score.

Example:

home/user>java –jar program 3;4;5;6

3;4;5;6

+1

4;5;6;7

%3

1;2;0;1

Undo

4;5;6;7