

Interpreter Coding Exercise

You are asked to write an expression processor for simple numeric expressions with the following constraints:

- Expressions use integral values (e.g., `'13'`), single-letter variables defined in Variables, as well as + and - operators only
- There is no need to support braces or any other operations
- If a variable is not found in `variables` (or if we encounter a variable with >1 letter, e.g. ab), the evaluator returns 0 (zero)
- In case of any parsing failure, evaluator returns 0

Example:

- `calculate("1+2+3")` should return 6
- `calculate("1+2+xy")` should return 0
- `calculate("10-2-x")` when x=3 is in `variables` should return 5