

## NUMBER SEQUENCES: TRANSFORMATIONS AND SELECTIONS

POETRY OF PROGRAMMING – CLOJURE ASSIGNMENTS

Check: `map`, `filter`, `apply`, `+`, `mod`, `*`

- (1) Compute the sum of those numbers between 1 and 100 (inclusive) that are divisible by 5.

Hint: There are roughly two strategies to get the sequence of numbers 5,10,15,...,100. You can choose one.

- (a) Selecting those numbers from 1,2,3,...,100 that are divisible by 5.
- (b) Producing the multiples of 5 by multiplying every number in the sequence 1,2,3,...,20 by 5.

solution: 1050

- (2) Compute the previous problem using the other strategy. If you used `filter`, then try without it, using `map`, or vice versa.