Home Exercise Nr 3 - Functional Programming with Python

In class we learned the principles of the functional programming with recursion (tail and non-tail). The questions in this Home Exercise will be exactly the same questions as in Home Exercise Nr 2, but now you will have to use recursion instead of high-order functions. You will have to implement two version for all your solutions, one using non-tail recursion and the other using tail recursion. All the other requirements are exactly the same as in Homr Exercise Nr 2.

NOTE that now it will be forbidden to use high-order functions in your solutions. Lambda expressions will be allowed, if you find that it is useful for your solution.