

Advanced Programming  
Assignment 2: Counting Parenthesis

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# 1 Code Assessment

We tried to do our best. what we managed to make work are the following

- we tried to work as independent as possible from the environment. So we actually use the environment only when we have a variable-x as in let or lambda functions.
- We implemented inputs as  $(+ 1 2 3)$  to work. In previous version  $+ *$  - could take only two arguments.
- We made let to work under all circumstances. in the code there is case in which we take different actions if there is only one binding or there are more.
- We made lambda functions to work only when we have one lambda function in the let expression. We pattern-matched the parser output and we made things as simple as possible.

We are satisfied from our code, however we know there is space for some improvements ( e.g. hi-order Monads). We did our best and we will definitely try to improve it for our own good.