

CSE341 - Programming Languages

Homework #0

Due Date: 18 October 2018 Thursday 08:00AM.

Hand-in Policy:

- Source codes must be uploaded to Moodle with a compressed format. File name must be studentID.(rar/zip)
- No late submissions will be accepted.
- Your submission must contain 3 source code files. Name of them must be exactly studentID_part#.lisp. (Example: 181045999_part1.lisp)

Collaboration Policy: No collaboration is permitted. Any cheating (copying someone else's work in any form) will result in a grade of -100 for the first offense and -200 for the subsequent attempts.

Grading: Each homework will be graded on the scale 100. Unless otherwise noted, the questions/parts will be weighed equal.

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This homework is about Common Lisp programming practice. Thus, you must write all the following parts in Common Lisp. You can write as many auxiliary functions as you want.

Part 1: You must write a function called list-leveller. List-leveller function takes a (nested) list as an input and converts the input (nested) list to a list which does not contain any list(s).

Part 2: You must write a function called merge-list. Merge-list function takes two lists as inputs and merges the lists. Output must be a list.

Part 3: Write a function called insert-n which takes a list, a number and an index as inputs, then inserts the number to the specified index in the list. Note that the i-th value in original list should not be overwritten.