Lisp Programming (15 marks)

This question is about lisp programming. You can use any builtin/pre-defined functions that are available in SBCL.

- (i) [7 marks] Write a Lisp function (defun exam0 (L) ...), where L is a (nonempty) list of sublists of numbers, and the function returns the sublist of L whose sum is the largest among all sublists in L. E.g., If L = ((2 3) (1) (8 9) (4 6 5)), the function should return the sublist (8 9). If multiple sublists have the same largest sum, any of them may be returned. We assume that a sublist is nonempty.
- (ii) [8 marks] Define a Lisp function (defun exam1 (L) ...), where L is a list of sublists of atoms, and the function returns a sublist of L which is a superlist of any other sublist in L. A list L is a superlist of another list L' if every atom in L' is also an atom in L. E.g., (a b c) is a superlist of (b a), {}, or (a c b), to name a few. If such a superlist does not exist, the function returns NIL.