

AI Lab : LISP Assignment

- a. Write a tail-recursive function to compute the length of an arbitrary list.
- b. Write two functions that compute the maximum and minimum of a list of integers, respectively.
- c. Write a function that collects integers from the user until a 0 is encountered and returns them in a list in the order they were input.
- d. Use functions of b. and c. to write a program to input a zero-ended list of integers, print the list in the order entered, and print the length, maximum and minimum of the list.
- e. Write a function that removes a particular value from a list and returns the list that excludes that value (only one occurrence is removed)
- f. Write a "selection" sort that takes two arguments--the unsorted list and the minimum or maximum function--and returns a sorted list in ascending or descending order, respectively, using the above functions. You may need to develop a couple of auxiliary functions to implement the sort. Add the sort call to the "main" function of part d.