Scheme Programming

1. Text

   Description automatically generatedReturn all rotations of a given list.  For example, (rotate '(a b c d e)) should return, in some order, ((a b c d e) (b c d e a) (c d e a b) (d e a b c) (e a b c d))

Graphical user interface, text, application, chat or text message

Description automatically generated

1. Return a list containing all elements of a given list that satisfy a Boolean function that is also passed.  For example, if one defined a Boolean function foo as follows: (define foo (lambda (x) (< x 5))) then (filter foo '(3 9 5 8 2 4 7)) should return (3 2 4).

Text

Description automatically generatedI found that scheme has a command called filter that is able to sort a list of numbers given a condition.

Text

Description automatically generated