CS314 Fall 2018

Assignment 6

Problem I – Scheme

Write Scheme programs that generate the following lists as output using only cons as the list building operator:

- 1. '((c (e f (b))) g b)
- 2. '((g) ((((h) i)) (a f)) d)
- 3. A list 1 that contains three items: the atom 'g',

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Note that cadr is composed of car and cdr such that (cadr l) = (car (cdr l)) https://powcoder.com

Problem II – Scheme

Write the following functions on lists in scheme. Whe semantics of the functions is described through examples.

1. Get nth digit of an integer

Note: You can use Scheme build-in function "modulo" and "floor".

Note: Do not use the Scheme build-in function "reverse".

3. Position of first occurrence of k in list

Assignment Project Exam Help

Note: You may want to define a helped function nttps://powcoder.com

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