Q&A for assignment 3

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Q. For question 2, can we assume the inputs are in the form of lists of length two, with all elements being numbers?

Yes, you can write your code based on these assumptions. Checking for these conditions is not required.

Q. For question 2, can we use built-in functions?

You can use built-in functions mentioned in class, plus arithmetic functions for finding square and square roots of numbers.

Q. Can you explain how to reduce things with lambda xyz.M?

A. For lambda xyz.M all you need to know is that it is an abbreviation of lambda x.lambda y. lambda z. so you need to rewrite it in the long form and then do the reduction.

Q. I am trying to write a simple function to return true if its arg is a list. I tried this:
(defun mylistp (list1) (cond (listp list1)))
But it does not work! When I try to run the following command:
(mylistp '(a b c))
It tells me LISTP has no value. What is wrong?

A. You are missing parenthesis. This is the correct way:
(defun mylistp (list1) (cond ((listp list1))))