COMP 333 Fall 2020

Algebraic Datatypes and Pattern Matching in Swift

Algebraic Datatypes and I attern matering in ownt
1.) Define an enum named MyBool which represents truth and falsehood.
2.) Define an enum named MyList which encodes a singly-linked list of integers, using the same cons/nil structure that we used in assignment 1.
3.) Using the prior enum definition, create a list containing 1, 2, and 3, in that order.

4.) Write a switch which will pattern match on a variable named list, and do one of the following:
 If the list starts with a 2, return 0 If the list starts with a 3, followed by a 4, return 1 For any other non-empty list, return the value of the first element If the list is empty, return -1

5.) Write a function named length which takes a list as a parameter, and recursively computes the length of the given list.