

Name of the Student: _____

Q 1

Write COND statements equivalent to: (a) (NOT U), (AND X Y Z), (OR X Y Z).¹

Q 2

Write a function SPLIT that takes an integer n and a list, and returns a list of two lists such that the first has the first n elements of the input list, and the second has the rest of the elements of the input list.

Q 3

Write a function SPLIT-TWO that splits a list of numbers into two equal length lists. If the original list has an odd length, there will be a middle element. Split this middle element between the two halves; half of it goes to the end of the first list, half of it goes to the beginning of the second list.

Q 4

From lecture notes, learn how INCN, PUSH and RETURN work. Go over all the iterative functions you have written so far and simplify them with these constructs, where possible.

¹Winston and Horn (1989), Problem 4-6.