CS 337 Pop Quiz 3 Open book and notes.

3/24/03

Problem Function sum is defined over non-negative integers. If n is even, sum n is the sum of all even integers from 0 through n, and if n is odd it is the sum of all odd integers from 0 through n.

sum 0 = 0sum n = n + sum (n-2)

Is this program correct?

Solution This program is incorrect, because no provision has been made for the case sum 1. The correct definition is:

sum 0 = 0 sum 1 = 1sum n = n + sum (n-2)