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Lab4

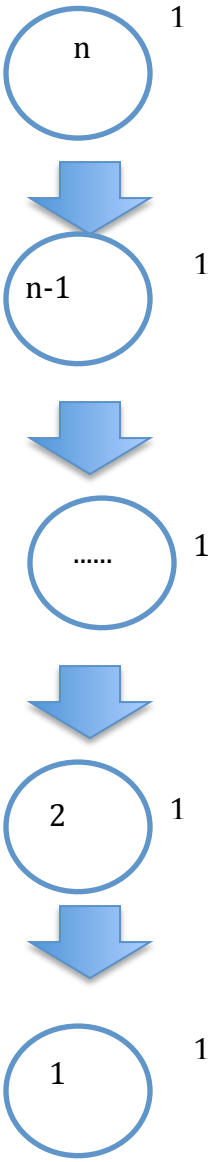
Written Problem

3)
a) O(n)
b)O(n^2)
4.
a)
The output for sum_list1 is as follows:
('sum_list1, low=', 0, ', high=', 7)
('sum_list1, low=', 1, ', high=', 7)
('sum_list1, low=', 2, ', high=', 7)
('sum_list1, low=', 3, ', high=', 7)
('sum_list1, low=', 4, ', high=', 7)
('sum_list1, low=', 5, ', high=', 7)
('sum_list1, low=', 6, ', high=', 7)
('sum_list1, low=', 7, ', high=', 7)

and the total sum is 36.

The output for sum_list2 is as follows:
('sum_list2 low=', 0, ', high=', 7)
('sum_list2 low=', 0, ', high=', 3)
('sum_list2 low=', 0, ', high=', 1)
('sum_list2 low=', 0, ', high=', 0)
('sum_list2 low=', 1, ', high=', 1)
('sum_list2 low=', 2, ', high=', 3)
('sum_list2 low=', 2, ', high=', 2)
('sum_list2 low=', 3, ', high=', 3)
('sum_list2 low=', 4, ', high=', 7)
('sum_list2 low=', 4, ', high=', 5)
('sum_list2 low=', 4, ', high=', 4)
('sum_list2 low=', 5, ', high=', 5)
('sum_list2 low=', 6, ', high=', 7)
('sum_list2 low=', 6, ', high=', 6)
('sum_list2 low=', 7, ', high=', 7)
and the total sum is 36.

b)
Sum_list1



Theta(n^2)

Sum_list2:

Theta(logn)