	Completed without assistance Andrew Pan
	1 9, 10, because there is no v that love all 1
	3, Yes, because there is a y (c) that all is love
	3, Yes, because all x love at least one x that boy
2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7 16 maise all x long at least one y
	b. Statement Table 1 24 xiy  b. Statement Table 1 24 xiy  b. Statement Table 1 toue  True True  True  True  True  True  True  True  True  True  True  True  True  True  True  True  True  True  True
	tx,x, loves(x,x) fake True True
<u> </u>	Hxy loves (x,y) > (2005(yx) tays False True
	Ux,y,z, loves (xy) 1 loves (42) - Flores (x2) False True True
	THE TIME
2	1 514-1000 > 1 10
	4. 4x. sun (x,0,x) 7 sun (x,s(0, s(x)), 1, 2
	1 -0 1 Sur (S(0) s(0)) ((S(A))) H
	1, 6, 7 x, sun (x, x, s(s(o))), 5
	2,4, yx, sum (x,0,x), 1 5, x=0 = sun (0,0,0) = sum (0,50), s(0), 4, 2
	VII. JUM (0), S(0)) -> Sup (1) S(0) 5 (0) 5
	8. Tx. sun(2,x,x) 17,6
3	as (inex_ending-lere, max_so_far):
1	(0,0) + (1,1) - (0,1) + (4,4) - (3,4) + (5,5) + (6,6)
	7 (1,6) 7 (5,6)
	b. No because max-subarray l'terates through
	the list pinstand of breaking the list into smaller page

(. Yes because max\_subgray breaks the maximum of two numbers multiple times di For this implementation of max-subarray () memoization does not phange the operation of the function for the given list, and does not reduce for the order of growth, H. a. bin (3, 1st, 0, a) + bin (3, 1st, 0,4) > Bin (3, (st, 0, 2) -> bin(3, tot) b. 125 because it divides the woment sublist it is looking at 1sto 2 sublists with each recursive call C. No, because a normal search would still use comparisons, as binary-search array toes d. For this implementation of binary-search across mempization does not change the operation of the function for the given list and does not reduce the order of growth. a. Memoization helps if the same value is being searched for in the same sublist over multiple runs, but provide he benefit for a single calle It relates to the recursion graph by Climinating further recursive calls for a mention call that has already been menoized, and to dynamic programming by reducing a comparison operation to looking for the key-value pair in a dictionary instead.