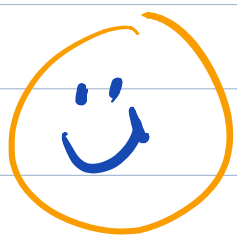
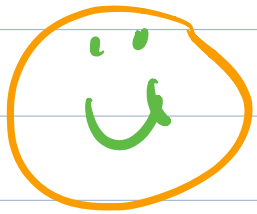
"Confidence Table" for function sum

depth	example	returned answer	correct?	Confident?
0	3	3	✓	
	0	0	✓	
	-101	-101	✓	
1	[3, 5, 9] (3, 5, 9)	17	✓	
	[1, 4, 8] (1, 4, 8)	13	✓	
	[1] ← (1)	1	✓	
	[]	0	✓	
2	[148, [1, 2], [], 10] (148, 3, 0, 10)	161	✓	
	[know that each element has depth 0 or 1]			
3	[2, [4], [[5]], [1, [2], [3,4,5]]] (2, 4, 5, 15)	26	✓	
	[know the elements have depth: 0, 1, or 2]			

Let C(n) represent "sum_nested" works correctly on nested lists of depth n.

1. Show C(0)
2. Assuming that C(i) $\forall\, i \leq k$, Show C(k+1)

} "the crank"

$\therefore$ $\forall\, n \geq 0$, C(n) is true!

This argument uses "strong" induction, an extension of the induction you've seen in csc165. Here we assume the statement is true for all smaller values.