

CSC148 Worksheet 15 Solution

Hyungmo Gu

April 26, 2020

Question 1

a. According to docstring, *flatten*(*[[0, -1], -2, [[-3, [-5], -7]]]*) should return

$[0, -1, -2, -3, -5, -7]$

b.

sublist	flatten(sublist)	Value of s at the end of the iteration
N/A	N/A	[] (initial value of a)
[0,-1]	[0,-1]	
2	2	
[[-3, [-5], -7]]	[-3,-5,-7]	

Correct Solution:

sublist	flatten(sublist)	Value of s at the end of the iteration
N/A	N/A	[] (initial value of a)
[0,-1]	[0,-1]	
2	2	
[[-3, [-5], -7]]	[-3,-5,-7]	

c.

sublist	flatten(sublist)	Value of s at the end of the iteration
N/A	N/A	[] (initial value of a)
[0,-1]	[0,-1]	[0,-1]
2	[2]	[0,-1,2]
[[-3, [-5], -7]]	[-3,-5,-7]	[0,-1,2,-3,-5,-7]

d. Yes, the final value of *s* in previous problem matches the solution of $[0,-1,2,-3,-5,-7]$ in problem 1.a.

Question 2

Question 3