PL UID:

Question 1: rt02

Question 1.1: run

Expected: {'key': 'c', 'html': '$\\Theta(n)$'}

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Question 1.1: run

Expected: {'key': 'e', 'html': '$\\Theta(n^2)$'}

Question 1: heap_shorts_array_implementation_mc

Question 1.1: heap_array

[{'key': 'b', 'html': '\n Using the heap to sort the array is asymptotically as efficient as using mergeSort.\n '}, {'key': 'd', 'html': '\n The heap order property may be violated by swapping the contents of two adjacent locations in ${\\tt arr}$ so that\n the first is now smaller than the second.\n '}]

Question 2: heap_shorts_build_heap

Question 2.1: arr

[5, 13, 46, 32, 52, 88, 85, 37, 61, 72]

Question 3: heap_shorts_operations

Question 3.1: heap_manipulation_insert

Expected: [{'key': 'c', 'html': '21'}, {'key': 'e', 'html': '53'}, {'key': 'g', 'html': '59'}]

Question 3.2: heap_manipulation_remove

Expected: [{'key': 'a', 'html': '16'}, {'key': 'b', 'html': '20'}, {'key': 'd', 'html': '23'}, {'key': 'g', 'html': '59'}]

Question 1: disjt_unions

Question 1.1: height

Expected: 2

Question 1.2: unions

Expected: 12

Question 1.3: uptreenum

Expected: 38186

Question 1: edge_bds

Question 1.1: bfs

Expected: 1351

Question 1.2: glb

Expected: 78

Question 1.3: lub

Expected: 3004

Question 1.4: complete

Expected: {'key': 'a', 'html': 'Yes'}

Question 2: lq12_mc-final-001a

Question 3: unique_disc

Question 3.1: bfs_dfs

[{'key': 'a', 'html': 'G is acyclic.'}, {'key': 'b', 'html': 'G is a tree.'}]

Question 4: v3_Graphs_running-time

Question 4.1: answer

Expected: {'key': 'e', 'html': '$O(1)$'}

Question 5: v3_Graphs_traversal

Question 5.1: answer

Expected: {'key': 'c', 'html': 'back'}