



## TT DS PYTHON MODULE-19



<b>State</b>	Finished
<b>Completed on</b>	Monday, 9 September 2024, 1:41 PM
<b>Time taken</b>	6 mins 36 secs
<b>Grade</b>	100.00 out of 100.00

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Question 1

Correct

Mark 20.00 out of 20.00

Flag question

Write a python program to implement merge sort without using recursive function on the given list of values.

For example:

Input	Result
7 33 42 9 37 8 47 5	left: [33] Right: [42] left: [9] Right: [37] left: [8] Right: [47] left: [5] Right: [] left: [33, 42] Right: [9, 37] left: [8, 47] Right: [5] left: [9, 33, 37, 42] Right: [5, 8, 47] [5, 8, 9, 33, 37, 42, 47]
6 10 3 5 61 74 92	left: [10] Right: [3] left: [5] Right: [61] left: [74] Right: [92] left: [3, 10] Right: [5, 61] left: [74, 92] Right: [] left: [3, 5, 10, 61] Right: [74, 92] [3, 5, 10, 61, 74, 92]

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
	7 33 42 9 37 8 47 5	left: [33] Right: [42] left: [9] Right: [37] left: [8] Right: [47] left: [5] Right: [] left: [33, 42] Right: [9, 37] left: [8, 47] Right: [5] left: [9, 33, 37, 42] Right: [5, 8, 47] [5, 8, 9, 33, 37, 42, 47]	left: [33] Right: [42] left: [9] Right: [37] left: [8] Right: [47] left: [5] Right: [] left: [33, 42] Right: [9, 37] left: [8, 47] Right: [5] left: [9, 33, 37, 42] Right: [5, 8, 47] [5, 8, 9, 33, 37, 42, 47]	
	6 10 3 5 61 74 92	left: [10] Right: [3] left: [5] Right: [61] left: [74] Right: [92] left: [3, 10] Right: [5, 61] left: [74, 92] Right: [] left: [3, 5, 10, 61] Right: [74, 92] [3, 5, 10, 61, 74, 92]	left: [10] Right: [3] left: [5] Right: [61] left: [74] Right: [92] left: [3, 10] Right: [5, 61] left: [74, 92] Right: [] left: [3, 5, 10, 61] Right: [74, 92] [3, 5, 10, 61, 74, 92]	
	5 4 12 6 98 3	left: [4] Right: [12] left: [6] Right: [98] left: [3] Right: []	left: [4] Right: [12] left: [6] Right: [98] left: [3] Right: []	



		Right: [] left: [4, 6, 12, 98] Right: [3] [3, 4, 6, 12, 98]	Right: [] left: [4, 6, 12, 98] Right: [3] [3, 4, 6, 12, 98]	
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Passed all tests!

**Correct**

Marks for this submission: 20.00/20.00.

## Question 2

Correct

Mark 20.00 out of 20.00

Flag question

Write a Python Program to print factorial of a number recursively.

For example:

Input	Result
5	Factorial of number 5 = 120
6	Factorial of number 6 = 720

**Answer:** (penalty regime: 0 %)

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Input	Expected	Got
5	Factorial of number 5 = 120	Factorial of number 5 = 120
6	Factorial of number 6 = 720	Factorial of number 6 = 720
7	Factorial of number 7 = 5040	Factorial of number 7 = 5040
8	Factorial of number 8 = 40320	Factorial of number 8 = 40320

Passed all tests!

**Correct**

Marks for this submission: 20.00/20.00.

## Question 3

Correct

Mark 20.00 out of 20.00

Flag question

Write a python program to implement binary search on the given list of float values using iterative method

For example:

Test	Input	Result
binarySearchAppr(arr, 0, len(arr)-1, x)	5 3.2 6.1 4.5 9.6 8.3 6.1	Element is present at index 2
binarySearchAppr(arr, 0, len(arr)-1, x)	6 3.1 2.3 5.1 4.6 3.2 9.5 4.6	Element is present at index 3

**Answer:** (penalty regime: 0 %)

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Test	Input	Expected	Got
binarySearchAppr(arr, 0, len(arr)-1, x)	5 3.2 6.1 4.5 9.6 8.3 6.1	Element is present at index 2	Element is present at index 2
binarySearchAppr(arr, 0, len(arr)-1, x)	6 3.1 2.3 5.1 4.6 3.2 9.5 4.6	Element is present at index 3	Element is present at index 3
binarySearchAppr(arr, 0, len(arr)-1, x)	8 2.1 6.3 5.2 4.2 9.3 6.7 5.6 9.8 7.2	Element is not present in array	Element is not present in array

Passed all tests!

Marks for this submission: 20.00/20.00.

#### Question 4

Correct

Mark 20.00 out of 20.00

Flag question

Write a python program to implement quick sort on the given float array values.

For example:

Input	Result
5 6.9 8.3 2.1 1.5 6.4	left: [] right: [] left: [] right: [] left: [1.5] right: [6.4] left: [] right: [] left: [1.5, 2.1, 6.4] right: [8.3] [1.5, 2.1, 6.4, 6.9, 8.3]
6 3.1 2.4 5.6 4.3 6.2 7.8	left: [] right: [] left: [] right: [] left: [] right: [] left: [] right: [7.8] left: [4.3] right: [6.2, 7.8] left: [2.4] right: [4.3, 5.6, 6.2, 7.8] [2.4, 3.1, 4.3, 5.6, 6.2, 7.8]

Answer: (penalty regime: 0 %)

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Input	Expected	Got
5 6.9 8.3 2.1 1.5 6.4	left: [] right: [] left: [] right: [] left: [1.5] right: [6.4] left: [] right: [] left: [1.5, 2.1, 6.4] right: [8.3] [1.5, 2.1, 6.4, 6.9, 8.3]	left: [] right: [] left: [] right: [] left: [1.5] right: [6.4] left: [] right: [] left: [1.5, 2.1, 6.4] right: [8.3] [1.5, 2.1, 6.4, 6.9, 8.3]
6 3.1 2.4 5.6 4.3 6.2 7.8	left: [] right: [] left: [] right: [] left: [] right: [] left: [] right: [7.8] left: [4.3] right: [6.2, 7.8] left: [2.4] right: [4.3, 5.6, 6.2, 7.8] [2.4, 3.1, 4.3, 5.6, 6.2, 7.8]	left: [] right: [] left: [] right: [] left: [] right: [] left: [] right: [7.8] left: [4.3] right: [6.2, 7.8] left: [2.4] right: [4.3, 5.6, 6.2, 7.8] [2.4, 3.1, 4.3, 5.6, 6.2, 7.8]
8 1.2 1.3 4.2 5.3 6.4 7.3 6.8 9.2	left: [] right: [] left: [] right: [] left: [6.8] right: [9.2] left: [] right: [6.8, 7.3, 9.2] left: [] right: [6.4, 6.8, 7.3, 9.2] left: [] right: [5.3, 6.4, 6.8, 7.3, 9.2] left: [] right: [4.2, 5.3, 6.4, 6.8, 7.3, 9.2] left: [] right: [1.3, 4.2, 5.3, 6.4, 6.8, 7.3, 9.2] [1.2, 1.3, 4.2, 5.3, 6.4, 6.8, 7.3, 9.2]	left: [] right: [] left: [] right: [] left: [6.8] right: [9.2] left: [] right: [6.8, 7.3, 9.2] left: [] right: [6.4, 6.8, 7.3, 9.2] left: [] right: [5.3, 6.4, 6.8, 7.3, 9.2] left: [] right: [4.2, 5.3, 6.4, 6.8, 7.3, 9.2] left: [] right: [1.3, 4.2, 5.3, 6.4, 6.8, 7.3, 9.2] [1.2, 1.3, 4.2, 5.3, 6.4, 6.8, 7.3, 9.2]

Passed all tests!

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Marks for this submission: 20.00/20.00.

Question 5

Correct

Mark 20.00 out of 20.00

Flag question

Write a python program to implement linear search on the given tuple of string values.

note: As the tuple is immutable convert the list to tuple to perform search

For example:

Input	Result
5 ram john akbar seetha oviya john	Tuple: john found
4 rohini fathima jenifer nizam rakesh	Tuple: rakesh not found

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
	5 ram john akbar seetha oviya john	Tuple: john found	Tuple: john found	
	4 rohini fathima jenifer nizam rakesh	Tuple: rakesh not found	Tuple: rakesh not found	
	6 rose jasmine tulips marigold hibiscus lotus lilly	Tuple: lilly not found	Tuple: lilly not found	

Passed all tests!



Marks for this submission: 20.00/20.00.

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