Started on	Wednesday, 23 April 2025, 3:25 PM
State	Finished
Completed on	Wednesday, 23 April 2025, 4:02 PM
Time taken	37 mins 12 secs
Grade	**80.00** out of 100.00

Question **1**

Not answered

Mark 0.00 out of 20.00

Write a python program to implement merge sort using iterative approach on the given list of float values.

For example:

Test	Input	Result
Merge_Sort(S)	5 10.2 21.3 3.5 7.8 9.8	The Original array is: [10.2, 21.3, 3.5, 7.8, 9.8] Array after sorting is: [3.5, 7.8, 9.8, 10.2, 21.3]
Merge_Sort(S)	6 20.3 41.2 5.3 6.2 8.1 65.2	The Original array is: [20.3, 41.2, 5.3, 6.2, 8.1, 65.2] Array after sorting is: [5.3, 6.2, 8.1, 20.3, 41.2, 65.2]

Answer: (penalty regime: 0 %)

```
1
```

Question **2**

Correct

Mark 20.00 out of 20.00

Write a python program for a search function with parameter list name and the value to be searched on the given list of float values.

For example:

Test	Input	Result
search(List, n)	5 3.2 6.1 4.5 6.2 8.5 3.2	3.2 Found
search(List, n)	4 3.2 1.5 6.4 7.8 6.1	6.1 Not Found

Answer: (penalty regime: 0 %)

```
def search(List,n):
    for i in range(len(List)):
        if List[i]==n:
            return 1
    else:
            return 0



List=[]
x=int(input())
for i in range(x):
    ele=float(input())
    List.append(ele)
n=float(input())
ans=search(List,n)
if ans==1:
    print(n,"Found")
else:
    print(n,"Not Found")
```

	Test	Input	Expected	Got	
✔	search(List, n)	5 3.2 6.1 4.5 6.2 8.5 3.2	3.2 Found	3.2 Found	✔
✔	search(List, n)	4 3.2 1.5 6.4 7.8 6.1	6.1 Not Found	6.1 Not Found	✔
✔	search(List, n)	7 2.1 3.2 6.5 4.1 5.2 7.1 8.2 9.3	9.3 Not Found	9.3 Not Found	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Correct

Mark 20.00 out of 20.00

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 %)

```
def qsort(arr):
    if arr==[]:
        return []
    pivot=arr[0:1]
    left=qsort([x for x in arr[1:] if x<arr[0]])
    right=qsort([x for x in arr[1:] if x>=arr[0]])
    print("left: ",left)
    print("right: ",right)
    return left+pivot+right

arr=[]
n=int(input())
for i in range(n):
    ele=float(input())
    arr.append(ele)
print(qsort(arr))
```

	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]	✔

	Input	Expected	Got	
✔	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! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Write a Python Program Using a recursive function to calculate the sum of a sequence
For example:

Input	Result
20	210
36	666
45	1035

Answer: (penalty regime: 0 %)

```
def edho(n):
    if n==1:
        return 1
    else:
        return n+edho(n-1)

n=int(input())
ans=edho(n)
print(ans)
```

	Input	Expected	Got	
✔	20	210	210	✔
✔	36	666	666	✔
✔	45	1035	1035	✔
✔	58	1711	1711	✔
✔	65	2145	2145	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Write a python program for a search function with parameter list name and the value to be searched on the given list of int values.

For example:

Test	Input	Result
search(List, n)	5 3 4 5 6 7 4	Found
search(List, n)	6 20 34 56 87 96 51 87	Found

Answer: (penalty regime: 0 %)

```
def search(List,n):
    for i in range(len(List)):
        if List[i]==n:
            return 1
    else:
            return 0
List=[]
x=int(input())
for i in range(x):
    ele=float(input())
    List.append(ele)
n=float(input())
ans=search(List,n)
if ans==1:
    print("Found")
else:
    print("Not Found")
```

	Test	Input	Expected	Got	
✔	search(List, n)	5 3 4 5 6 7 4	Found	Found	✔
✔	search(List, n)	6 20 34 56 87 96 51 87	Found	Found	✔

	Test	Input	Expected	Got	
✔	search(List, n)	4 30 10 20 50 60	Not Found	Not Found	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.