Started on	Wednesday, 19 March 2025, 8:32 AM
State	Finished
Completed on	Wednesday, 19 March 2025, 9:23 AM
Time taken	50 mins 26 secs
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Write a Python Program to print the fibonacci series upto n_terms using Recursion.

For example:

Input	Result
10	Fibonacci series: 0 1 1 2 3 5 8 13 21 34
5	Fibonacci series: 0 1 1 2 3
7	Fibonacci series: 0 1 1 2 3 5 8

Answer: (penalty regime: 0 %)

```
def series(n):
    if n<=1:
        return n
    else:
        return series(n-1)+series(n-2)
n=int(input())
print("Fibonacci series:")
for i in range(n):
    print(series(i))
```

	Input	Expected	Got	
✔	10	Fibonacci series: 0 1 1 2 3 5 8 13 21 34	Fibonacci series: 0 1 1 2 3 5 8 13 21 34	✔
✔	5	Fibonacci series: 0 1 1 2 3	Fibonacci series: 0 1 1 2 3	✔
✔	7	Fibonacci series: 0 1 1 2 3 5 8	Fibonacci series: 0 1 1 2 3 5 8	✔
✔	9	Fibonacci series: 0 1 1 2 3 5 8 13 21	Fibonacci series: 0 1 1 2 3 5 8 13 21	✔
✔	11	Fibonacci series: 0 1 1 2 3 5 8 13 21 34 55	Fibonacci series: 0 1 1 2 3 5 8 13 21 34 55	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

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

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

For example:

Input	Result
5 3.2 1.5 6.4 7.8 9.5 6.4	Tuple: 6.4 found
6 3.2 1.2 3.4 5.3 6.2 6.8 6.2	Tuple: 6.2 found

Answer: (penalty regime: 0 %)

```
def search(list,n):
    for i in list:
        if i==n:
            print(f"Tuple: {n} found")
            return
    print(f"Tuple: {n} not found")
a=int(input())
List=[]
for i in range(a):
    List.append(float(input()))
n=float(input())
search(List,n)
```

	Input	Expected	Got	
✔	5 3.2 1.5 6.4 7.8 9.5 6.4	Tuple: 6.4 found	Tuple: 6.4 found	✔
✔	6 3.2 1.2 3.4 5.3 6.2 6.8 6.2	Tuple: 6.2 found	Tuple: 6.2 found	✔

	Input	Expected	Got	
✔	4 2.1 3.2 6.5 4.5 3.5	Tuple: 3.5 not found	Tuple: 3.5 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 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 %)

```
def Merge_Sort(S):
    if len(S)>1:
        mid=len(S)//2
        left_half=S[:mid]
        right_half=S[mid:]
        Merge_Sort(left_half)
        Merge_Sort(right_half)
        i=j=k=0
        while i<len(left_half) and j<len(right_half):
            if left_half[i]<right_half[j]:
                S[k]=left_half[i]
                i+=1
            else:
                S[k]=right_half[j]
                j+=1
            k+=1
        while i<len(left_half):
            S[k]=left_half[i]
            i+=1
            k+=1
        while j<len(right_half):
            S[k]=right_half[j]
```

	Test	Input	Expected	Got	
✔	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]	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]	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]	✔
✔	Merge_Sort(S)	4 2.3 6.1 4.5 96.5	The Original array is: [2.3, 6.1, 4.5, 96.5] Array after sorting is: [2.3, 4.5, 6.1, 96.5]	The Original array is: [2.3, 6.1, 4.5, 96.5] Array after sorting is: [2.3, 4.5, 6.1, 96.5]	✔

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 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 %)

```
def search(list,n):
    for i in list:
        if i==n:
            print(f"Tuple: {n} found")
            return
    print(f"Tuple: {n} not found")
a=int(input())
List=[]
for i in range(a):
    List.append(input())
n=input()
search(List,n)
```

	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	✔

	Input	Expected	Got	
✔	6 rose jasmine tulips marigold hibiscus lotus lilly	Tuple: lilly not found	Tuple: lilly not found	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Incorrect

Mark 0.00 out of 20.00

Write a python program to implement quick sort on the given float values and print the sorted list and pivot value of each iteration.

For example:

Input	Result
5 2.3 3.2 1.6 4.2 3.9	Input List [2.3, 3.2, 1.6, 4.2, 3.9] pivot: 2.3 pivot: 3.2 pivot: 4.2 Sorted List [1.6, 2.3, 3.2, 3.9, 4.2]
4 5 2 49 3	Input List [5.0, 2.0, 49.0, 3.0] pivot: 5.0 pivot: 3.0 Sorted List [2.0, 3.0, 5.0, 49.0]

Answer: (penalty regime: 0 %)

```
def search(list,n):
    for i in list:
        if i==n:
            print(f"InputList {n} SortedList")
            return
    print(f"InputList {n} SortedList")
a=int(input())
List=[" "]
for i in range(a):
    List.append(float(input()))
n=float(input())
search(List,n)
```

	Input	Expected	Got	
✖	5 2.3 3.2 1.6 4.2 3.9	Input List [2.3, 3.2, 1.6, 4.2, 3.9] pivot: 2.3 pivot: 3.2 pivot: 4.2 Sorted List [1.6, 2.3, 3.2, 3.9, 4.2]	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 11, in <module> n=float(input()) EOFError: EOF when reading a line	✖

Testing was aborted due to error.

Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/20.00.