Started on	Friday, 11 April 2025, 3:09 PM
State	Finished
Completed on	Friday, 11 April 2025, 3:34 PM
Time taken	24 mins 41 secs
Grade	80.00 out of 100.00

```
Question 1
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 Found
	3.2	
	6.1	
	4.5	
	6.2	
	8.5	
	3.2	
search(List, n)	4	6.1 Not Found
	3.2	
	1.5	
	6.4	
	7.8	
	6.1	

Answer: (penalty regime: 0 %)

```
global key
 2 v def search(List,n):
 3 ₹
        for i in range(0,n):
 4 ▼
            if List[i]==key:
 5
                 return i
 6
        return -1
 7
    List=[]
    n=int(input())
 8
9 v for i in range(0,n):
10 ele=float(input())
10
11
        List.append(ele)
12
    key=float(input())
    res=search(List,n)
13
14 v if(res==-1):
    print(f"{key} Not Found")
16 ▼ else:
17
        print(f"{key} Found")
18
19
```

	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	*

/26/25, 2:34 PM Passed all tests! ✔	ASSESSMENT EXAM-19 -SEB: Attempt review
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 the quick sort using recursion on the given list of float values.

For example:

Input	Result
5	pivot: 9.7
6.3	pivot: 5.8
1.2	pivot: 4.6
4.6	[1.2, 4.6, 5.8, 6.3, 9.7]
5.8	
9.7	
6	pivot: 5.4
2.3	pivot: 3.6
7.8	pivot: 7.8
9.5	[2.3, 3.6, 4.2, 5.4, 7.8, 9.5]
4.2	
3.6	
5.4	
1	

Answer: (penalty regime: 0 %)

```
1 def part(arr,1,r):
 2
        pi=arr[r]
 3
        i=1-1
 4
        for j in range(1,r):
 5 •
             if arr[j]<=pi:</pre>
 6
                 i=i+1
 7
                 arr[i],arr[j]=arr[j],arr[i]
 8
        arr[i+1],arr[r]=arr[r],arr[i+1]
        return i+1
10 •
    def quickSort(arr,1,r):
11
        if 1<r:</pre>
             p=part(arr,1,r)
print("pivot: ",arr[p])
12
13
             quickSort(arr,1,p-1)
14
15
             quickSort(arr,p+1,r)
16
        return arr
    arr=list()
17
18
    n=int(input())
19 🔻
    for i in range(0,n):
        ele=float(input())
20
21
        arr.append(ele)
22 print(quickSort(arr,0,n-1))
```

Input	Expected	Got	
5	pivot: 9.7	pivot: 9.7	~
6.3	pivot: 5.8	pivot: 5.8	
1.2	pivot: 4.6	pivot: 4.6	
4.6	[1.2, 4.6, 5.8, 6.3, 9.7]	[1.2, 4.6, 5.8, 6.3, 9.7]	
5.8			
9.7			
6	pivot: 5.4	pivot: 5.4	~
2.3	pivot: 3.6	pivot: 3.6	
7.8	pivot: 7.8	pivot: 7.8	
9.5	[2.3, 3.6, 4.2, 5.4, 7.8, 9.5]	[2.3, 3.6, 4.2, 5.4, 7.8, 9.5]	
4.2			
3.6			
5.4			
4	pivot: 1.5	pivot: 1.5	~
3.2	pivot: 3.2	pivot: 3.2	
6.4	pivot: 6.4	pivot: 6.4	
8.7	[1.5, 3.2, 6.4, 8.7]	[1.5, 3.2, 6.4, 8.7]	
1.5			
	5 6.3 1.2 4.6 5.8 9.7 6 2.3 7.8 9.5 4.2 3.6 5.4	pivot: 9.7 6.3 pivot: 5.8 1.2 pivot: 4.6 4.6 [1.2, 4.6, 5.8, 6.3, 9.7] 5.8 9.7 6 pivot: 5.4 2.3 pivot: 3.6 7.8 pivot: 7.8 9.5 [2.3, 3.6, 4.2, 5.4, 7.8, 9.5] 4.2 3.6 5.4 4 pivot: 1.5 3.2 pivot: 3.2 6.4 pivot: 6.4 8.7 [1.5, 3.2, 6.4, 8.7]	5 pivot: 9.7 pivot: 9.7 pivot: 5.8 pivot: 5.8 pivot: 4.6 [1.2, 4.6, 5.8, 6.3, 9.7] 6 pivot: 5.4 pivot: 3.6 pivot: 7.8 pivot: 7.8 [2.3, 3.6, 4.2, 5.4, 7.8, 9.5] 6 pivot: 5.4 pivot: 3.6 pivot: 3.6 pivot: 3.6 pivot: 3.6 pivot: 4.8 pivot: 3.6 pivot: 5.8 pivot: 5.4 pivot: 5.4 pivot: 5.8 pivot: 5.4 pivot: 5.8 pivot: 5.4 pivot: 5.5 piv

Passed all tests! 🗸

Correct

Marks for this submission: 20.00/20.00.

```
Question 3
Incorrect
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	The Original array is: [10.2, 21.3, 3.5, 7.8, 9.8]
	10.2	Array after sorting is: [3.5, 7.8, 9.8, 10.2, 21.3]
	21.3	
	3.5	
	7.8	
	9.8	
Merge_Sort(S)	6	The Original array is: [20.3, 41.2, 5.3, 6.2, 8.1, 65.2]
	20.3	Array after sorting is: [5.3, 6.2, 8.1, 20.3, 41.2, 65.2]
	41.2	
	5.3	
	6.2	
	8.1	
	65.2	

Answer: (penalty regime: 0 %)

```
1 v def Merge_Sort(s):
 2 •
         if len(s)>1:
 3
              mid=(len(s))//2
 4
              left=s[:mid]
              right=s[mid:]
              Merge_Sort(left)
Merge_Sort(right)
 6
 7
 8
              i=j=k=<mark>0</mark>
              while(i<len(left) and j<len(right)):</pre>
 9
10 •
                   if(left[i]<right[j]):</pre>
                        s[k]=left[i]
11
12
                        i += 1
13
                        k+=1
14
                   else:
15
                        s[k]=right[j]
16
                        j+=1
17
                        k+=1
              while(i<len(left)):</pre>
18 •
19
                   s[k]=left[i]
20
                   i+=1
21
                   k+=1
              while(j<len(right)):</pre>
22 🔻
```

Syntax Error(s)

```
File "__tester__.python3", line 30
  print("The Original array is: ",S)
^
```

 ${\tt SyntaxError:\ invalid\ syntax}$

Incorrect

Marks for this submission: 0.00/20.00.

```
Question 4
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	Found
	3	
	4	
	5	
	6	
	7	
	4	
search(List, n)	6	Found
	20	
	34	
	56	
	87	
	96	
	51	
	87	

Answer: (penalty regime: 0 %)

```
global key
2 v def search(List,n):
3 ▼
       for i in range(0,n):
           if List[i]==key:
4 ▼
5
               return i
6
       return -1
   List=[]
8
   n=int(input())
9 v for i in range(0,n):
       ele=float(input())
10
11
       List.append(ele)
12
   key=float(input())
   res=search(List,n)
13
14 v if(res==-1):
       print("Not Found")
15
   else:
16
17
       print("Found")
18
19
```

	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	Not Found	Not Found	~
		30			
		10			
		20			
		50			
		60			

Passed all tests! 🗸

Correct

Marks for this submission: 20.00/20.00.

Question ${\bf 5}$

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 %)

	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.