Started on	Tuesday, 13 May 2025, 1:23 PM
State	Finished
Completed on	Tuesday, 13 May 2025, 6:27 PM
Time taken	5 hours 4 mins
Overdue	3 hours 4 mins
Grade	80.00 out of 100.00

```
Question 1
Correct
Mark 20.00 out of 20.00
```

Create a Dynamic Programming python Implementation of Coin Change Problem.

For example:

Test	Input	Result
count(arr, m, n)	3	4
	4	
	1	
	2	
	3	

Answer: (penalty regime: 0 %)

Reset answer

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```
def count(S, m, n):
    table = [[0 \text{ for } x \text{ in range}(m)] \text{ for } x \text{ in range}(n+1)]
    for i in range(m):
        table[0][i] = 1
    for i in range(1, n+1):
        for j in range(m):
             # Count of solutions including S[j]
             #Start here
             x = table[i - S[j]][j] if i-S[j] >= 0 else 0
             # Count of solutions excluding S[j]
             y = table[i][j-1] if j >= 1 else 0
             # total count
             table[i][j] = x + y
    return table[n][m-1]
    #End here
arr = []
m = int(input())
```

	Test	Input	Expected	Got	
*	count(arr, m, n)	3 4 1 2 3	4	4	~
*	count(arr, m, n)	3 16 1 2 5	20	20	~

Passed all tests! 🗸

Correct

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```
Question 2
Correct
Mark 20.00 out of 20.00
```

Write a python program to find the maximum contiguous subarray.

For example:

Input	Result
8	Maximum contiguous sum is 7
-2	
-3	
4	
-1	
-2	
1	
5	
-3	
	-2 -3 4 -1 -2 1

Answer: (penalty regime: 0 %)

Reset answer

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	Test	Input	Expected	Got	
*	maxSubArraySum(a,n)	8 -2 -3 4 -1 -2 1 5	Maximum contiguous sum is 7	Maximum contiguous sum is 7	*

	Test	Input	Expected	Got	
~	maxSubArraySum(a,n)	5	Maximum contiguous sum is 9	Maximum contiguous sum is 9	~
		1			
		-2			
		-3			
		4			
		5			

Passed all tests! 🗸



Marks for this submission: 20.00/20.00.

Question 3
Correct
Mark 20.00 out of 20.00

Write a Python Program for printing Minimum Cost Simple Path between two given nodes in a directed and weighted graph

For example:

Test	Result
<pre>minimumCostSimplePath(s, t, visited, graph)</pre>	-3

Answer: (penalty regime: 0 %)

Reset answer

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```
import sys
V = 5
INF = sys.maxsize
def minimumCostSimplePath(u, destination,
                          visited, graph):
####### Add your code here #############
    #Start here
    if (u == destination):
       return 0
    visited[u] = 1
    ans = INF
    for i in range(V):
        if (graph[u][i] != INF and not visited[i]):
            curr = minimumCostSimplePath(i, destination,
                                         visited, graph)
            if (curr < INF):
                ans = min(ans, graph[u][i] + curr)
```

	Test	Expected	Got	
~	<pre>minimumCostSimplePath(s, t, visited, graph)</pre>	-3	-3	~

Passed all tests! 🗸

Correct

Marks for this submission: 20.00/20.00.

Question 4

Not answered

Mark 0.00 out of 20.00

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

For example:

Input	Result	
7	left: [33]	
33	Right: [42]	
42	left: [9]	
9	Right: [37]	
37	left: [8]	
8	Right: [47]	
47	left: [5]	
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, 4	2, 47]
6	left: [10]	
10	Right: [3]	
3	left: [5]	
5	Right: [61]	
61	left: [74]	
74	Right: [92]	
92	left: [3, 10]	
	Right: [5, 61]	
	left: [74, 92]	
	Right: []	
	left: [3, 5, 10, 6	1]
	Right: [74, 92]	
	[3, 5, 10, 61, 74,	92]

Answer: (penalty regime: 0 %)

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```
Question 5
Correct
Mark 20.00 out of 20.00
```

Create a python program to find the minimum number of jumps needed to reach end of the array using Dynamic Programming.

For example:

Test	Input	Result
minJumps(arr,n)	6	Minimum number of jumps to reach end is 3
	1	
	3	
	6	
	1	
	0	
	9	

Answer: (penalty regime: 0 %)

Reset answer

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```
def minJumps(arr, n):
    ######## Add your code here ###############
    #Start here
    jumps = [0 for i in range(n)]
    if (n == 0) or (arr[0] == 0):
        return float('inf')
    jumps[0] = 0
    for i in range(1, n):
        jumps[i] = float('inf')
        for j in range(i):
            if (i \leftarrow j + arr[j]) and (jumps[j] != float('inf')):
                jumps[i] = min(jumps[i], jumps[j] + 1)
                break
    return jumps[n-1]
    #End here
arr = []
```

	Test	Input	Expected	Got	
~	minJumps(arr,n)	6	Minimum number of jumps to reach end is 3	Minimum number of jumps to reach end is 3	~
		1			
		3			
		6			
		1			
		0			
		9			

	Test	Input	Expected	Got	
~	minJumps(arr,n)	7	Minimum number of jumps to reach end is 3	Minimum number of jumps to reach end is 3	~
		2			
		3			
		-8			
		9			
		5			
		6			
		4			

Passed all tests! 🗸

Correct

Marks for this submission: 20.00/20.00.