Started on	Tuesday, 30 April 2024, 2:02 PM
State	Finished
Completed on	Tuesday, 30 April 2024, 2:29 PM
Time taken	26 mins 58 secs
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Print All Paths With Minimum Jumps

```
1. You are given a number N representing number of elements.
2. You are given N space separated numbers (ELE : elements).
3. Your task is to find & print
    3.1) "MINIMUM JUMPS" need from 0th step to (n-1)th step.
    3.2) all configurations of "MINIMUM JUMPS".
NOTE: Checkout sample question/solution video inorder to have more insight.
```

For example:

Test	Input	Result
minJumps(arr)	10 3 3 0 2 1 2 4 2 0 0	0 -> 3 -> 5 -> 6 -> 9 0 -> 3 -> 5 -> 7 -> 9

Answer: (penalty regime: 0 %)

Reset answer

```python
from queue import Queue
import sys
class Pair(object):
    idx = 0
    psf = ""
    jmps = 0
    def __init__(self, idx, psf, jmps):

        self.idx = idx
        self.psf = psf
        self.jmps = jmps
def minJumps(arr):
    MAX_VALUE = sys.maxsize
    dp = [MAX_VALUE for i in range(len(arr))]
    n = len(dp)
    dp[n - 1] = 0

    for i in range(n - 2, -1, -1):
        steps = arr[i]
        minimum = MAX_VALUE

        for j in range(1, steps + 1, 1):
```

	Test	Input	Expected	Got	
✓	minJumps(arr)	10 3 3 0 2 1 2 4 2 0 0	0 -> 3 -> 5 -> 6 -> 9 0 -> 3 -> 5 -> 7 -> 9	0 -> 3 -> 5 -> 6 -> 9 0 -> 3 -> 5 -> 7 -> 9	✓

	Test	Input	Expected	Got	
✓	`minJumps(arr)`	7 5 5 0 3 2 3 6	0 -> 1 -> 6 0 -> 3 -> 6 0 -> 4 -> 6 0 -> 5 -> 6	0 -> 1 -> 6 0 -> 3 -> 6 0 -> 4 -> 6 0 -> 5 -> 6	✓

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 find the maximum contiguous subarray on the given float array using kadane's algorithm.

For example:

Test	Input	Result
s.maxSubArray(A)	5 -9.6 -3.5 6.3 8.31 9.2	The sum of contiguous sublist with the largest sum is 23.8

Answer: (penalty regime: 0 %)

Reset answer

```python
class Solution:
    def maxSubArray(self,A):
        res=0
        mm= -10000
        for v in A:
            res+=v
            mm=max(mm,res)
            if res<0:
                res=0
        return mm
A =[]
n=int(input())
for i in range(n):
    A.append(float(input()))
s=Solution()
print("The sum of contiguous sublist with the largest sum is {:.1f}".format(s.maxSubArray(A)))

```

	Test	Input	Expected	Got	
✓	s.maxSubArray(A)	5 -9.6 -3.5 6.3 8.31 9.2	The sum of contiguous sublist with the largest sum is 23.8	The sum of contiguous sublist with the largest sum is 23.8	✓
✓	s.maxSubArray(A)	7 2.3 6.5 4.6 -7.8 -2.8 -1.6 9.8	The sum of contiguous sublist with the largest sum is 13.4	The sum of contiguous sublist with the largest sum is 13.4	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Incorrect

Mark 0.00 out of 20.00

SUBSET SUM PROBLEM

Given a set of positive integers, and a value sum, determine that the sum of the subset of a given set is equal to the given sum.

Write the program for subset sum problem.

INPUT

1.no of elements

2.Input the given elements

3.Get the target sum

OUTPUT

True , if subset with required sum is found

False , if subset with required sum is not found

For example:

Input	Result
5 4 16 5 23 12 9	4 16 5 23 12 True,subset found

Answer: (penalty regime: 0 %)

Reset answer

```
def SubsetSum(a,i,sum,target,n):
    if(SubsetSum(a,i,sum,target,n)==False):


# Write your code here








a=[]
size=int(input())
for i in range(size):
    x=int(input())
    a.append(x)

target=int(input())
n=len(a)
if(SubsetSum(a,i,sum,target,n)==True):
```

Syntax Error(s)

```
Sorry: IndentationError: expected an indented block (__tester__.python3, line 14)
```

Incorrect

Marks for this submission: 0.00/20.00.

Question **4**

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 1 2 3	4

Answer: (penalty regime: 0 %)

Reset answer

```python
def count(S, m, n):
    table = [[0 for x in range(m)] for x 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):
            x = table[i - S[j]][j] if i-S[j] >= 0 else 0
            y = table[i][j-1] if j >= 1 else 0
            table[i][j] = x + y
    return table[n][m-1]
arr = []
m = int(input())
n = int(input())
for i in range(m):
    arr.append(int(input()))
print(count(arr, m, n))
```

	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

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Write a Python program using A Naive recursive implementation of Minimum Cost Path Problem.

For example:

Input	Result
3 3	8

Answer: (penalty regime: 0 %)

Reset answer

```python
R = int(input())
C = int(input())
import sys
def minCost(cost, m, n):
    if (n < 0 or m < 0):
        return sys.maxsize
    elif (m == 0 and n == 0):
        return cost[m][n]
    else:
        return cost[m][n] + min( minCost(cost, m-1, n-1),minCost(cost, m-1, n),minCost(cost, m, n-1)
def min(x, y, z):
    if (x < y):
        return x if (x < z) else z
    else:
        return y if (y < z) else z
cost= [ [1, 2, 3],
        [4, 8, 2],
        [1, 5, 3] ]
print(minCost(cost, R-1, C-1))
```

	Input	Expected	Got	
✓	3 3	8	8	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.