Started on Saturday, 3 May 2025, 8:18 AM

**State** Finished

Completed on Saturday, 3 May 2025, 8:48 AM

Time taken 30 mins 6 secs

Grade 80.00 out of 100.00

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

Create a Python Function to find the total number of distinct ways to get a change of 'target' from an unlimited supply of coins in set 'S'.

# For example:

Test	Input	Result
<pre>count(S, len(S) - 1, target)</pre>	3 4 1 2 3	The total number of ways to get the desired change is 4

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 v
    def count(S, n, target):
 2 🔻
        if target == 0:
 3
            return 1
        if target < 0 or n < 0:</pre>
 4
 5
        return 0
 6
        incl = count(S, n, target - S[n])
        excl = count(S, n - 1, target)
 7
 8
        return incl + excl
 9
    if __name__ == '__main__':
10 *
        S = []#[1, 2, 3]
11
12
        n=int(input())
13
        target = int(input())
        for i in range(n):
14
            S.append(int(input()))
15
16
        print('The total number of ways to get the desired change is',
17
            count(S, len(S) - 1, target))
```

	Test	Input	Expected	Got	
<b>*</b>	<pre>count(S, len(S) - 1, target)</pre>	3 4 1 2 3	The total number of ways to get the desired change is 4	The total number of ways to get the desired change is 4	<b>~</b>
<b>*</b>	<pre>count(S, len(S) - 1, target)</pre>	3 11 1 2 5	The total number of ways to get the desired change is 11	The total number of ways to get the desired change is 11	<b>~</b>

Passed all tests! ✓

Marks for this submission: 20.00/20.00.

Question 2
Incorrect
Mark 0.00 out of 20.00

Write a python program to implement knight tour problem using backtracking

#### For example:

Input	Result
5	Found a solution
	01 20 11 14 03
	10 15 02 19 12
	21 24 13 04 07
	16 09 06 23 18
	25 22 17 08 05

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
BOARD_SIZE = int(input())
1
   board = [[0 for i in range(BOARD_SIZE)] for j in range(BOARD_SIZE)]
3
   STEPS = [[-1, 2], [1, 2], [-2, 1], [2, 1], [1, -2], [-1, -2], [2, -1], [-2, -1]]
4
5
   def solve_knights_tour(x, y, step_count):
6
       7
8
9
   def is safe(x, y):
       return 0 <= x < BOARD_SIZE and 0 <= y < BOARD_SIZE and board[x][y] == 0</pre>
10
11
12
13 🔻
   def print_solution():
14
       for row in board:
15
           for col in row:
              print("0" + str(col) if col < 10 else col, end=" ")</pre>
16
17
           print()
18
19
20
   board[0][0] = 1
                     # First move is at (0, 0)
21
22 | if solve_knights_tour(0, 0, 2):
```

```
Syntax Error(s)
```

Sorry: IndentationError: expected an indented block (\_\_tester\_\_.python3, line 9)

Incorrect

Marks for this submission: 0.00/20.00.

```
Question 3
Correct
Mark 20.00 out of 20.00
```

Write a Python program to Implement Minimum cost path in a Directed Graph

#### For example:

```
Test Result

getMinPathSum(graph, visited, necessary, source, dest, 0);

12
```

Answer: (penalty regime: 0 %)

#### Reset answer

```
minSum = 10000000000
 1
 2
    def getMinPathSum(graph, visited, necessary,src, dest, currSum):
 3
        global minSum
        if src==dest:
 4
 5
             flag=True
 6
             for i in necessary:
 7
                 if not visited[i]:
 8
                     flag=False
 9
                     break
10
             if flag:
11
                 minSum=min(minSum,currSum)
12
             return
        for node in graph[src]:
13
             if not visited[node[0]]:
14
                 visited[node[{\color{red}0}]] = {\color{blue}True}
15
                 getMinPathSum(graph, visited, necessary, node[0], dest, currSum+node[1])
16
17
                 visited[node[0]]=False
18
        visited[src]=False
    if __name__=='__main__':
19
20
        graph=dict()
21
        graph[0] = [ [ 1, 2 ], [ 2, 3 ], [ 3, 2 ] ];
22
        graph[1] = [ [ 4, 4 ], [ 0, 1 ] ];
```

	Test	Expected	Got	
~	<pre>getMinPathSum(graph, visited, necessary,</pre>	12	12	~

Passed all tests! 🗸

Marks for this submission: 20.00/20.00.

```
Question 4
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	The sum of contiguous sublist with the largest sum is 23.8
	-9.6	
	-3.5	
	6.3	
	8.31	
	9.2	

**Answer:** (penalty regime: 0 %)

```
Reset answer
```

```
class Solution:
 1 🔻
 2 🔻
        def maxSubArray(self,A):
 3
            res=0
 4
            mm= -10000
 5
            for v in A:
 6
                res+=v
 7
                mm=max(mm,res)
 8
                if res<0:</pre>
 9
                    res=0
10
            return mm
11
   A =[]
12
   n=int(input())
13 v for i in range(n):
        A.append(float(input()))
14
15
    s=Solution()
16 | print("The sum of contiguous sublist with the largest sum is {:.1f}".format(s.maxSubArray(A)))
```

	Test	Input	Expected	Got	
<b>*</b>	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	<b>~</b>

	1-23 -SEB: Attempt review	
Passed all tests! 🗸		
Correct		
Marks for this submission: 20.00/20.00.		

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

#### Print All Paths With Minimum Jumps

```
    You are given a number N representing number of elements.
    You are given N space separated numbers (ELE: elements).
    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	0 -> 3 -> 5 -> 6 -> 9
	3	0 -> 3 -> 5 -> 7 -> 9
	3	
	0	
	2	
	1	
	2	
	4	
	2	
	0	
	0	

# Answer: (penalty regime: 0 %)

#### Reset answer

```
1
    from queue import Queue
    import sys
 2
 3
    class Pair(object):
 4
        idx = 0
        psf = ""
 5
        jmps = <mark>0</mark>
 6
        def __init__(self, idx, psf, jmps):
 7
 8
            self.idx = idx
 9
            self.psf = psf
10
            self.jmps = jmps
    def minJumps(arr):
11
12
        MAX_VALUE = sys.maxsize
        dp = [MAX_VALUE for i in range(len(arr))]
13
        n = len(dp)
14
15
        dp[n-1]=0
        for i in range(n - 2, -1, -1):
16
17
            steps = arr[i]
            minimum = MAX_VALUE
18
            for j in range(1, steps + 1, 1):
19
20
                if i + j >= n:
21
                    break
22
                if ((dp[i + j] != MAX_VALUE) and
```

	Test	Input	Expected	Got	
~	minJumps(arr)	10	0 -> 3 -> 5 -> 6 -> 9 0 -> 3 -> 5 -> 7 -> 9	0 -> 3 -> 5 -> 6 -> 9	~
		3	0 -> 3 -> 3 -> / -> 9	0 -> 3 -> 3 -> / -> 9	
		0			
		2			
		1			
		2			
		4			
		2			
		0			
		0			
~	minJumps(arr)	7	0 -> 1 -> 6	0 -> 1 -> 6	~
		5	0 -> 3 -> 6	0 -> 3 -> 6	
		5	0 -> 4 -> 6	0 -> 4 -> 6	
		0	0 -> 5 -> 6	0 -> 5 -> 6	
		3			
		2			
		3 6			
		ь			
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	Marks for this submission: 20.00/20.00.				