| Started on | Wednesday, 23 July 2025, 10:14 AM |
|--------------|-----------------------------------|
| State | Finished |
| Completed on | Thursday, 7 August 2025, 10:30 AM |
| Time taken | 15 days |
| Overdue | 14 days 22 hours |
| Grade | 100.00 out of 100.00 |

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

Create a python function to compute the fewest number of coins that we need to make up the amount given.

For example:

| Input | Result |
|-------------|--------------|
| 3 | 3 |
| 11 | |
| 1 | |
| 2 | |
| 5 | |
| 111 111 111 | 11 1 2 |

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 - class Solution(object):
        2 •
                                          Add your Code Here ##########
             dp = [float('inf')] * (amount + 1)
 4
 5
             dp[0]=0
            for coin in coins:
    for i in range(coin, amount + 1):
        dp[i] = min(dp[i], dp[i - coin] + 1)
return dp[amount] if dp[amount]!=float('inf') else -1
 6 ,
 7
 8
 9
10
    ob1 = Solution()
11
    n=int(input())
12
13
    s=[]
14
    amt=int(input())
15 🔻
    for i in range(n):
         s.append(int(input()))
16
17
18
    print(ob1.coinChange(s,amt))
19
```

| | Test | Input | Expected | Got | |
|---|-----------------------|------------------------|----------|-----|----------|
| ~ | ob1.coinChange(s,amt) | 3 11 1 2 5 | 3 | 3 | * |
| ~ | ob1.coinChange(s,amt) | 3 12 1 2 5 | 3 | 3 | * |
| ~ | ob1.coinChange(s,amt) | 3 22 1 2 5 | 5 | 5 | * |

Passed all tests! 🗸

Question **2**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

```
import sys
 2
3
    INF = sys.maxsize
    def minimumCostSimplePath(u, destination,
5 ,
                               visited, graph):
        6
        if (u == destination):
 7 ,
8
            return 0
9
        visited[u] = 1
        ans = INF
for i in range(V):
10
11 ,
            if (graph[u][i] != INF and not visited[i]):
12 🔻
13
                 curr = minimumCostSimplePath(i, destination, visited, graph)
                 if (curr < INF):</pre>
14
15
                     ans = min(ans, graph[u][i] + curr)
16
        visited[u] = 0
17
        return ans
18
        __name__ == "__main__ ":
graph = [[INF for j in range(V)]
for i in range(V)]
19 v if
20
21
        visited = [0 for i in range(V)]
22
```

| Г | Test | Expected | Got | | | | | |
|-------|--|----------|-----|----------|--|--|--|--|
| ~ | <pre>minimumCostSimplePath(s, t, visited, graph)</pre> | -3 | -3 | ~ | | | | |
| Passe | d all tests! 🗸 | | | | | | | |
| | | | | | | | | |

```
Question 3
Correct
Mark 20,00 out of 20,00
```

Create a python program to find Minimum number of jumps to reach end of the array using naive method(recursion)

For example:

| Test | Input | Result |
|-----------------------|-------|---|
| minJumps(arr, 0, n-1) | 10 | Minimum number of jumps to reach end is 4 |
| | 1 | |
| | 3 | |
| | 6 | |
| | 3 | |
| | 2 | |
| | 3 | |
| | 6 | |
| | 8 | |
| | 9 | |
| | 5 | |

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 def minJumps(arr, l, h):
  2 ,
             if (h == l):
             return 0
if (arr[l] == 0):
 3
 4
                  return float('inf')
 5
  6
             min = float('inf')
            for i in range(l + 1, h + 1):
    if (i < l + arr[l] + 1):
        jumps = minJumps(arr, i, h)
        if (jumps != float('inf') and</pre>
 8 *
 9
10
                               jumps + 1 < min):
min = jumps + 1
11 .
12
13
14
            return min
15
      arr = []
16
      n = int(input()) #len(arr)
17 for i in range(n):
18 arr.append(int(input()))
19 print('Minimum number of jumps to reach','end is', minJumps(arr, 0, n-1))
```

| | Test | input | Expected | Got | |
|---|-----------------------|-------|---|---|---|
| / | minJumps(arr, 0, n-1) | 10 | Minimum number of jumps to reach end is 4 | Minimum number of jumps to reach end is 4 | ~ |
| | | 1 | | | |
| | | 3 | | | |
| | | 6 | | | |
| | | 3 | | | |
| | | 2 | | | |
| | | 3 | | | |
| | | 6 | | | |
| | | 8 | | | |
| | | 9 | | | |
| | | 5 | | | |
| / | minJumps(arr, 0, n-1) | 7 | Minimum number of jumps to reach end is 2 | Minimum number of jumps to reach end is 2 | ~ |
| | | 3 | | | |
| | | 2 | | | |
| | | 5 | | | |
| | | 9 | | | |
| | | 4 | | | |
| | | 1 | | | |
| | | 6 | | | |

```
Question 4
```

Mark 20.00 out of 20.00

Given a string s, return the longest palindromic substring in s.

Example 1:

```
Input: s = "babad"
Output: "bab"
Explanation: "aba" is also a valid answer.
```

Example 2:

```
Input: s = "cbbd"
Output: "bb"
```

For example:

| Test | Input | Result | |
|-----------------------------|--------|--------|--|
| ob1.longestPalindrome(str1) | ABCBCB | ВСВСВ | |

Answer: (penalty regime: 0 %)

Reset answer

```
1 v class ob1:
         @staticmethod
 2
 3 ,
         def longestPalindrome(s):
 4
             start = 0
             max_len = 0
result = ""
 5
 6
 7
             for i in range(len(s)):
                 l = r = i
 8
                  while l >= 0 and r < len(s) and s[l] == s[r]:

if (r - l + 1) > max_len or ((r - l + 1) == max_len and s[l:r+1] < result):
 9
10
11
                          start = l
                           \max len = r - l + 1
12
                          result = s[l:r+1]
13
                      l -= 1
14
15
                  l = i
16
                  r = i + 1
17
                  while l >= 0 and r < len(s) and s[l] == s[r]:
18
                      if (r - l + 1) > max_len or ((r - l + 1) == max_len and s[l:r+1] < result):
19
20
                           start = l
                           max_len = r - l + 1
21
                           result = s[l:r+1]
22
```

| | Test | Input | Expected | Got | |
|---|-----------------------------|--------|----------|-------|---|
| ~ | ob1.longestPalindrome(str1) | АВСВСВ | ВСВСВ | всвсв | ~ |
| ~ | ob1.longestPalindrome(str1) | BABAD | ABA | ABA | ~ |

Passed all tests! ✓



```
Question 5
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
 1 - class Solution:
        def maxSubArray(a,size):
 2 1
 3
            max_sum = A[0]
 4
 5
            current_sum = A[0]
           for i in range(1, len(A)):
    current_sum = max(A[i], current_sum + A[i])
 6
 7
 8
               max_sum = max(max_sum, current_sum)
 9
            return max_sum
 10
11
    A =[]
    n=int(input())
12
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 | |
|---|------------------|---|--|--|---|
| ~ | 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! 🗸