Our Solution(s) Run

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Run Code
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Your Solutions

Run Code

```
Solution 1
 1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   # O(nc) time | O(nc) space
   def knapsackProblem(items, capacity):
       knapsackValues = [[0 for x in range(0, capacity + 1)] for y in ra
        for i in range(1, len(items) + 1):
           currentWeight = items[i - 1][1]
           currentValue = items[i - 1][0]
9
           for c in range(0, capacity + 1):
10
               if currentWeight > c:
                   knapsackValues[i][c] = knapsackValues[i - 1][c]
11
12
               else:
13
                   knapsackValues[i][c] = max(
                       knapsackValues[i - 1][c], knapsackValues[i - 1][c
14
15
16
       return [knapsackValues[-1][-1], getKnapsackItems(knapsackValues,
17
18
19 def getKnapsackItems(knapsackValues, items):
20
       sequence = []
21
       i = len(knapsackValues) - 1
22
       c = len(knapsackValues[0]) - 1
23
       while i > 0:
           if knapsackValues[i][c] == knapsackValues[i - 1][c]:
              i -= 1
26
           else:
27
               sequence.append(i - 1)
28
               c -= items[i - 1][1]
29
               i -= 1
30
           if c == 0:
31
32
        return list(reversed(sequence))
33
```

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```
def knapsackProblem(items, capacity):
    # Write your code here.
    # return [
    # 10, // total value
    # [1, 2], // item indices
    #]
pass
```



Run or submit code when you're ready.