17

18

19

20 21

23

242526

27

28

29

30

31

33

Solution 1 Solution 2

Run Code

Our Solution(s) Run Code

```
Solution 1
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
   class Program {
     // O(nc) time | O(nc) space
     public static List<List<Integer>>> knapsackProblem(int[][] items, in
       int[][] knapsackValues = new int[items.length + 1][capacity + 1];
       for (int i = 1; i < items.length + 1; i++) {</pre>
         int currentWeight = items[i - 1][1];
10
11
         int currentValue = items[i - 1][0];
         for (int c = 0; c < capacity + 1; c++) \{
12
           if (currentWeight > c) {
             knapsackValues[i][c] = knapsackValues[i - 1][c];
14
             knapsackValues[i][c] =
16
```

knapsackValues[i - 1][c],

public static List<List<Integer>> getKnapsackItems(

sequence.add(new ArrayList<Integer>());

int i = knapsackValues.length - 1;

int[][] knapsackValues, int[][] items, int weight) {

List<Integer> totalWeight = new ArrayList<Integer>();

List<List<Integer>> sequence = new ArrayList<List<Integer>>();

knapsackValues[i - 1][c - currentWeight] + currentVa

return getKnapsackItems(knapsackValues, items, knapsackValues[item

Math.max(

totalWeight.add(weight);

sequence.add(totalWeight);

```
de Your Solutions
```

14 } 15

Solution 3

Run or submit code when you're ready.