

Find K-Sum Subsets

Try to solve the Find K-Sum Subsets problem.

We'll cover the following

- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

Statement

Given a set of n positive integers, find all the possible subsets of integers that sum up to a number k .

Constraints:

- $1 \leq n \leq 10$
- $1 \leq x \leq 100$, where x is any member of the input set
- $1 \leq k \leq 10^3$

Examples

Sample example 1

Input: $k = 10$

Set of integers						
1	3	5	21	19	7	2



Output

```
{3, 7}, {3, 5, 2}, {1, 7, 2}
```

Subsets that sum to $k = 10$.

1 of 3



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Find K-Sum Subsets

1

From the given set, find all subsets with sum equals k :

set = {8, 13, 3, 22, 17, 39, 87, 45, 36}

$k = 16$

A) {8, 3}

B) {13, 3}

?

Tt



C) {13, 8}

D) {22, 17}

Submit Answer



Question 1 of 3
0 attempted



Reset Quiz ↻

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Note: As an additional challenge, we have intentionally hidden the solution to this puzzle.



Drag and drop the cards to rearrange them in the correct sequence.

If the sum for any subset equals k , then add this subset into the result list.

Return the result list.

Find all possible subsets of the set.



Find the sum of the elements
of each subset.

Reset

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Try it yourself

Implement your solution in the following coding playground.



you. You may try to translate the logic of the solved puzzle into a coded solution.



Java



usercode > main.java

```
1 import java.util.*;
2 public class Main{
3     public static List<List<Integer>> getKSumSubsets(List<Integer> setOfIr
4         // Write your code here
5         return new ArrayList<>();
6     }
7 }
```



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Test Cases

Results

Case 1

Case 2

Case 3

Input #1

[8,13,3,22,17,39,87,45,36]

Input #2

3

Find K-Sum Subsets

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Solution: Generate Par...

Next →

Greedy Techniques: In...



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Completed

