M03S02 [Pointers and Functions]: Exercise 02

CS110: Computing Lab
Department of CSE, IIT Guwahati
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M03S02E02: Free Devasena

A dacoit named Bhallaladeva abducted a philanthropist Devasena from village Mahishmati. When the people of Mahishmati approached Bhallaladeva to free Devasena, he demanded certain amount of money **B** from them, with certain constraint to check their loyalty towards Devasena. The constraint is, each person may donate all of their money or none towards the total demanded amount **B**. No partial amount of money is accepted from any person. Assuming, money of each of the persons is indicated in an array **P**, find the different possibilities of freeing Devasena through money donation. That is, obtain the different combinations of the money from **P** that make **B**. Output the money combinations in non-decreasing order.

Input Format:
In the first line, number of persons in Mahishmati are given.
In the second line, total money of each of the persons, **P** is given.
In third line, money demanded by Bhallaladeva, **B** is given.

Output Format:
In each line, a non-decreasing combination of the money from **P** that sum to **B** is provided.

Constraints:
The total population of Mahishmati is 200
The money associated with each person is a positive whole number
If none of the money combinations from **P** make to **B**, then output "Devasena can not be freed!"
NOTE: Student must use pointer(s) and function(s) to solve this exercise

Example 1:

Input:
7
10 1 2 7 6 1 5
8

Output:
1 7
1 2 5
2 6
1 1 6