

Question 04

You are given an array of distinct integers. Your task is to find all triplets in the array whose sum equals zero.

Write a function or program to solve this problem efficiently.

Input:

The input consists of two parts:

The first line contains an integer n ($3 \leq n \leq 10^3$), denoting the number of elements in the array.

The second line contains n space-separated integers, representing the elements of the array.

Output:

Output each triplet that sums to zero. Each triplet should be printed on a separate line, with the three elements separated by a space. If no such triplets exist, print "**No triplet found**".

Example:

Sample Input: 5 0 -1 2 -3 1 Output: (-1,0,1) (-3,2,1)	Sample Input: 7 2 -1 5 0 -5 1 -3 Output: (1,2,-3) (0,-1,1) (0,5,-5)
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Explanation:

In the given example, the array is [0, -1, 2, -3, 1]. There are two triplets with zero sum: (0, -1, 1) and (-3, 1, 2).

Note:

- The array may contain both positive and negative integers.
- **Each triplet should be printed only once.**