

Use any programming language of your choice to answer the following. Try to come up with the most optimized solution by run-time complexity.

Question 1:

Given an array of distinct integers. The task is to count all the triplets such that sum of two elements equals the third element. If no such triplets can form, print "-1". For example: Array [1 5 3 2] has 2 Triplets : $1 + 2 = 3$ and $3 + 2 = 5$

Question 2:

Given an even number (greater than 2), return two prime numbers whose sum will be equal to given number.

Examples:

Input 1:

4

Output 1:

$2 + 2 = 4$

Question 3:

You are a professional robber planning to rob houses along a street. Each house has a certain amount of money stashed, the only constraint stopping you from robbing each of them is that adjacent houses have security systems connected and **it will automatically contact the police if two adjacent houses were broken into on the same night.**

Given a list of non-negative integers representing the amount of money of each house, determine the maximum amount of money you can rob tonight **without alerting the police.**

Example:

Input: nums = [1,2,3,1]

Output: 4

Input: nums = [2,7,9,3,1]

Output: 12

Input: nums = [2,7,9,3,10,5,4,6]

Output: 27