



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API CALENDAR HELP 10 YEARS! 🏗

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Even Subset Sum Problem

time limit per test: 1 second memory limit per test: 512 megabytes input: standard input output: standard output

You are given an array a consisting of n positive integers. Find a **non-empty** subset of its elements such that their sum is **even** (i.e. divisible by 2) or determine that there is no such subset.

Both the given array and required subset may contain equal values.

Input

The first line contains a single integer t ($1 \le t \le 100$), number of test cases to solve. Descriptions of t test cases follow.

A description of each test case consists of two lines. The first line contains a single integer n ($1 \le n \le 100$), length of array a.

The second line contains n integers a_1, a_2, \ldots, a_n $(1 \le a_i \le 100)$, elements of a. The given array a can contain equal values (duplicates).

Output

For each test case output -1 if there is no such subset of elements. Otherwise output positive integer k, number of elements in the required subset. Then output k distinct integers $(1 \le p_i \le n)$, indexes of the chosen elements. If there are multiple solutions output any of them.

Example

input	Сору
3	
3 1 4 3	
1 15	
2	
3 5	
output	Сору
1 2	
-1	
2 1 2	

Note

There are three test cases in the example.

In the first test case, you can choose the subset consisting of only the second element. Its sum is 4 and it is even.

In the second test case, there is only one non-empty subset of elements consisting of the first element, however sum in it is odd, so there is no solution.

In the third test case, the subset consisting of all array's elements has even sum.

Codeforces Round #626 (Div. 2, based on Moscow Open Olympiad in Informatics)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Contest materials • Announcement • Tutorial

Codeforces (c) Copyright 2010-2020 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: May/18/2020 15:30:02^{UTC-4} (g2).

Desktop version, switch to mobile version.

Privacy Policy

Supported by



