ICPC Assiut University Community





HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

E. Construct The Sum

time limit per test: 5 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given two integers n and s. You have to find distinct positive integers. Each of them less than or equal to n and their summation equals to s, or determine that this is impossible.

Note: Don't print any extra spaces.

Input

The first line contains a single integer $T(1 \le T \le 100)$, the number of the test cases.

Each of the following T lines contains two space-separated integers n and s. $(1 \le n \le 10^5, 1 \le s \le 10^{18})$.

Output

For each test case, if you could find an answer, print k, the number of elements in the answer, followed by k elements of the answer on a single line.

If there is no possible answer, print -1 on a single line.

Example

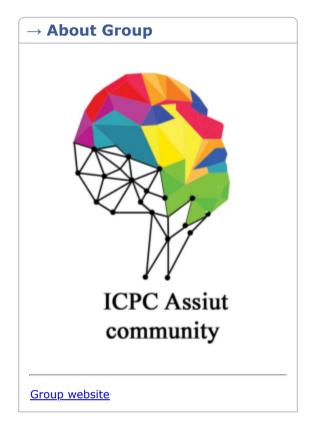
input	Сору
3	
5 3	
7 10	
6 4	
output	Сору
2 1 2	
2 3 7	
1 4	

<u>Assiut University Training - Newcomers</u>

Public

Participant





→ **Group Contests**



- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type Conditions)

Sheet #10 (General Hard)

Finished

Practice



→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the link.