

ICPC Assiut University Community

Newcomers Training ,Do Your Best


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G. Construct the Sum

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

You are given two integers n and s , and you have to find distinct positive integers, such that each of them is $\leq n$, and their summation $= s$. Otherwise, state that this is impossible.

Input

The first line contains a number T ($1 \leq T \leq 100$) – number of test cases.

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

Output

For each test case, if there is no possible answer, print -1 on a single line. Otherwise, print the set of numbers that satisfy the above condition on a single line. You can print the numbers in any order. If there are multiple answers, you can print any of them.

Example

input	Copy
4 5 3 7 10 6 4 2 10	
output	Copy
2 1 4 3 2 1 3 1 -1	

Assiut University Training - Newcomers

Public

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[Group website](#)

→ 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)

Contest #2

Finished