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# **TATA CONSULTANCY SERVICES**

Welcome SOUPTIK SARKAR

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**Coding Arena** 

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**Rules & Regulations** 

**Problem: Cats And Dogs** 

Cats & Dogs have become friends now. They are going to a picnic and they decided to sit together in groups to have their

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**Launch Code Editor** 

There are N Cats & M Dogs. They can form any number of groups to sit together, subject to rules below.

#### Rules:

- 1. They will sit in a straight line
- 2. A Cat cannot sit beside another Cat or alone
- 3. A Dog cannot sit beside another Dog or alone

You need to find minimum number of groups they need to form. If no group can be formed then print -1.

## Input Format:

First line of input will be a number of Test Cases T

Next T lines of input will contains two numbers N and M, delimited by space

## **Output Format:**

Print minimum number of groups to be formed for each Test Case in new line

## OR

Print -1 if no group can be formed

#### Constraints:

- 1.0<T<=10^6
- 2. 0<N,M<=10^18

## Example:

Example Number	Sample Input	Sample Output
1	2 5 5 1 3	1 -1
2	3 7 8 3 5 6 7	1 2 1

#### Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

#### Note:

## Note:

For C and C++, return type of main() function should be int.

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# **Submit Answer**

■ I , **SOUPTIK SARKAR** confirm that the answer submitted is my own.







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