TATA CONSULTANCY SERVICES
Experience certainty.

Welcome ASHISH JOHNSON   Home   **Coding Arena**   My Compile & Run   My Submissions Graphs Feedback

Coding Arena

<C*deVita/>
the TCS Coding Contest

Time Left

02 **39** **14**
hr   min   sec

A   B   **C**   D   E   F   G   H

Rules & Regulations

Launch Code Editor

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 lunch.

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:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

Note:

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

© 2016 Tata Consultancy Services Limited. All Rights Reserved.

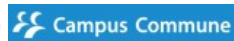
Submit Answer

☐ I , **ASHISH JOHNSON** confirm that the answer submitted is my own.

[   ] [Browse...]   [Submit]