**Day 74 coding Statement :**

You have a grid with *N* rows and *M* columns. You have two types of tiles — one of dimensions 2×2 and the other of dimensions 1×1. You want to cover the grid using these two types of tiles in such a way that:

* Each cell of the grid is covered by exactly one tile; and
* The number of 1×1 tiles used is minimized.

Find the **minimum** number of 1×1 tiles you have to use to fill the grid.

**Input Format**

* The first line of input will contain a single integer *T*, denoting the number of test cases.
* Each test case consists of a single line containing two space-separated integers *N*,*M*.

**Output Format**

For each test case, print on a new line the minimum number of 1×1 tiles needed to fill the grid.

**Sample Input**

4

1 1

4 5

6 8

3 2

**Sample Output**

1

4

0

2

import java.util.Scanner;

public class RatanPrajapati\_day74 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int T = sc.nextInt();

        while (T-- > 0) {

            int ans = 0;

            int N = sc.nextInt();

            int M = sc.nextInt();

            if (M % 2 == 0 && N % 2 == 0) {

                ans = 0;

            } else if (M % 2 == 0 && N % 2 != 0) {

                ans = M;

            } else if (M % 2 != 0 && N % 2 == 0) {

                ans = N;

            } else {

                ans = M + N - 1;

            }

            System.out.println(ans);

        }

    }

}