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

```java
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);
        }
    }
}
```