## Odd Count

You are given two integers $A$ and $B$. Count how many numbers are there from $A$ to $B$ which are odd.

## Input

First line contains an integer $T$ - number of the test case. Next $T$ lines contain two integers each, values of $A$ and $B$.

## Output

For each test case output the desire answer.

## Example

Input:
5
11
12
22
23
13
Output:
1
1
0
1
2

