Jack is building a new house. He would like to tile his kitchen with congruent pieces formed by removing a  $1 \times 1$  square from a  $2 \times 2$  square.

He already knows that his kitchen will have length between L1 and L2 inclusive, and its width will be between W1 and W2 inclusive. Jack insists his kitchen to be a perfect rectangle. Of course, the floor must be tiled completely using these pieces (no overlaps, no spaces).



Determine the number of dimensions for Jack's Kitchen.

## Input

You will be given K, the number of test cases. The next K lines will contain four positive integers separated by spaces: L1 L2 W1 W2, all of which are less than 1000.

## Output

For each test case you are to output a single line containing the number of different dimensions for Jacks Kitchen. A  $2 \times 1$  kitchen is different from a  $1 \times 2$  kitchen.

## Sample Input

2 2 2 2 3 2 3 3 4

## Sample Output

1 2