Application of Common Divisor

Problem Description:

Let D, Q1, Q2, R1, and R2 be positive integers. If Q1 is divided by D leaves a remainder of R1 (R1 < Q1) and Q2 is divided by D leaves a remainder of R2 (R2 < Q2), then how many values of divisor D that will satisfy the above constraints? Output all the values of D if it exists. For example, if Q1 = 109, R1 = 1, Q2 = 75, and R2 = 3, then D can be 1, 2, 3, 4, 6, 9, 12, 18, or 36.

Technical Specification:

1. D, Q1, Q2, R1, and R2 are positive integers.
2. R1 < Q1
3. R2 < Q2

Input File Format:

The first line contains an integer n which indicates the number of test cases. Each of the following n lines contains the values of Q1, R1, Q2, and R2 sequentially.

Output Format:

For each test cases, output the values of divisor D that satisfies the constraints in one line. There is a space between two values.

Example

Sample Input:	**Sample Output:**
2 109 1 75 3 27 3 38 2	1 2 3 4 6 9 12 18 36 1 2 3 4 6 12