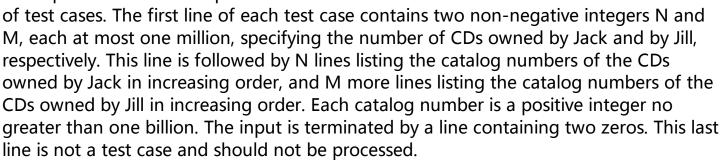
Problem A: CD

Jack and Jill have decided to sell some of their Compact Discs, while they still have some value. They have decided to sell one of each of the CD titles that they both own. How many CDs can Jack and Jill sell?

Neither Jack nor Jill owns more than one copy of each CD.

Input Specification

The input consists of a sequence



Sample Input

3 3

1 2

3

2

0 0

Output Specification

For each test case, output a line containing one integer, the number of CDs that Jack and Jill both own.

Output for Sample Input

2

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