N. Simply Subsets

Time Limit: 3 seconds

Problem description

After graduating from the FPT University, you obtained a job at FPT Software JSC, as an entry-level computer engineer. On the first day, your manager sits down with you and tasks you with the following job: "We want to see how well you understand computer programming and the abstract science behind it. As an evaluation for all of our new hires, we require them to write a program to determine the relationship between pairs of sets. I'm quite sure that you'll do well; my confidence is high. Here's a list of requirements for what the program should do. Good luck."

Input:

Your program should accept an even number of lines of text. Each pair of lines will represent two sets; the first line represents set A, the second line represents set B. Each line of text (set) will be a list of distinct integers.

Output:

After each pair of lines has been read in, the sets should be compared and one of the following responses should be output:

- A is a proper subset of B

- B is a proper subset of A

- A equals B

- A and B are disjoint

- I'm confused!

Example 1:

Input	Output
55 27	A equals B
55 27	B is a proper subset of A
9 24 1995	A is a proper subset of B
9 24	A and B are disjoint
1 2 3	I'm confused!
1 2 3 4	
1 2 3	

| 4 5 6
1 2
2 3 | |