

I'm Sorry I Killed an Ant and Created a Tyrant

It's hard keeping track of what is and isn't your fault when traveling through time...or talking to women.

Description

As per the Code of Ethics of Time Travel, one must be careful with any changes that are made. When you're lazy, like Seymore, paying attention to all those silly effects (avalanche, domino, butterfly) is just too much effort so why not just do whatever and apologize when things go wrong later! What's the saying? It's easier to get forgiveness than attention?

Your task is potentially catastrophic — given a list of chain reactions resulting from something Seymore did (event A) and a worrying end case, determine if the end event was Mr. Traveler's fault so he can send back apology flowers.

Example Input/Output

You will be given a variable number of lines consisting of upper-case letters. The first letter of each line is the causing event and each letter following it is a resulting effect. The last line in the list will have a single letter. You must determine if this event (letter) was caused by Mr. Traveler (event A). It will always be a directed acyclic graph.

```
A B
B C
C
true
A B
C D
D
false
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