B. **Credentials Check**

Author: *Shahril*

Imagine a system with a set of credentials which contain username and password. Can you make a simple system that check if user entered credential is match with the one inside the list?

Input

First line contains C $(5 \leq C \leq 100)$, number of credentials.

For the following C lines there will be two strings, U and P, representing username and password in the system. U and P will contain no space in between them.

Next line will contains T $(1 \leq T \leq 100)$, number of test case(s).

The following T lines will contain two test credential, UT and PT, representing username and password that we want to check. UT and PT will contain no space in between them.

Output

For each T lines, print "YES" if the credential exists inside the list, otherwise print "NO".

Sample Input	Sample Output
4 admin admin john abc123 surya password test test 5 abu bakar john abc123 user pass sura password surya password	NO YES NO NO YES