Anagram (challenge)

In this problem, you are given two strings **S1** and **S2**, your task is to determine whether one string is an [anagram](#) of the other.

Input

The first line would consist of the number of test cases **t** (t<100). This would be followed by **t** lines consisting of two space separated strings. Each string would consist of no more than **100** characters.

Output

You have to print *YES* if one string is an anagram of the other or *NO* otherwise.

Example

Input:
4
aaba aaab
abcd deba
tom_marvolo_riddle_ i_am_lord_voldemort
_gregory_House Huge_ego_sorry
Output:
YES
NO
YES
YES