

Maria me ta kitrina

Input file: standard input
Output file: standard output
Time limit: 0.3 seconds
Memory limit: 1024 megabytes

*Maria me ta kitrina, pion agapas kalitera
Pion agapas kalitera, ton antra sou i ton
gitona*

Ionuț Galani - Maria me ta kitrina

Maria has found two strings S and T which contain only characters A , B , and C . She wants to know whether those two strings can become equal by applying the following operation any number of times (possibly zero):

Add or remove any of the substrings ABC , BAC , AAA , BBB , CCC from any of the two strings.

Input

The first line of input will contain the number of testcases t ($1 \leq t \leq 10^4$).

Each testcase contains two lines, one for each of the strings S and T ($1 \leq |S|, |T| \leq 175\,000$).

It is guaranteed that the sum of lengths of all the strings in the input is at most 350 000.

Output

The output will contain t lines, each with the answer “YES” if the two strings can become equal, or “NO” otherwise.

Example

standard input	standard output
2	YES
AABACA	NO
BBBCCC	
A	
CCC	