## Problem M. Slavic's Exam

Time limit 2000 ms Mem limit 262144 kB

Slavic has a very tough exam and needs your help in order to pass it. Here is the question he is struggling with:

There exists a string s, which consists of lowercase English letters and possibly zero or more "?".

Slavic is asked to change each "?" to a lowercase English letter such that string t becomes a subsequence (not necessarily continuous) of the string s.

Output any such string, or say that it is impossible in case no string that respects the conditions exists.

## Input

The first line contains a single integer T ( $1 \le T \le 10^4$ ) — the number of test cases.

The first line of each test case contains a single string s ( $1 \le |s| \le 2 \cdot 10^5$ , and s consists only of lowercase English letters and "?"-s) — the original string you have.

The second line of each test case contains a single string t ( $1 \le |t| \le |s|$ , and t consists only of lowercase English letters) – the string that should be a subsequence of string s.

The sum of |s| over all test cases doesn't exceed  $2 \cdot 10^5$ , where |x| denotes the length of the string x.

## Output

For each test case, if no such string exists as described in the statement, output "NO" (without quotes).

Otherwise, output "YES" (without quotes). Then, output one line — the string that respects all conditions.

You can output "YES" and "NO" in any case (for example, strings "YES", "Yes", and "Yes" will be recognized as a positive response).

If multiple answers are possible, you can output any of them.

## Examples

Input	Output
5	YES
?????	xabax
xbx	YES
ab??e	abcde
abcde	YES
ayy?x	аууух
a	NO NO
ab??e	NO
dac	
paiu	
mom	