Problem C
Search by template

Input File: C.IN
Output File: standard output
Program Source File: C.C, C.CPP, C.JAVA

The pattern `P` and the text `T` are given. They contain the letters of the Latin alphabet (lowercase and uppercase). The pattern may also contain the characters `'?'`, `'['`, `']'`, `'{'` and `'}'` You must find all the positions where `P` appears in `T`.

Each position in the pattern `P` may contain:

- a letter from the Latin alphabet (`'a' - 'z', 'A' - 'Z'`)
- the character `'?'` that can replace any letter (on its place can be any letter)
- brackets `'['...']'`, between them there is the set of letters that may be in the current position
- brackets `'{'...'}'`, between them there is the set of letters that are not allowed to be in the current position
- the letters can be repeated in brackets like [`asssa`] or {`kLLf`}.

For example, if the pattern `P` is `A?[bcCc]{De}`, then the first letter of a match must be `A`, the second can be any Latin letter, the third - letter `b`, `c` or `C`, and the fourth can be any Latin letter except `D` or `e`.

Input. The first line contains the number of test cases *n*. Each test consists of two lines. The first line contains the pattern `P` with no more than `100` characters and `60` positions. The second line contains the text with no more than 10^6 letters.

Output. For each test case print on a separate line all text positions where the pattern matches, in ascending order (the first letter from the text T is assumed to have the position '1'). If the pattern `P` does not appear in text `T`, print the message "`no match`". There must be a single space between each printed position, and no extra space at the beginning/end of line.

Sample input	Sample output
3 A?[bcCc]{De} yAqCpsApbeAocqq ???[QWERTY] aSdFrQererRTY {eRT}? eRTeRTq	2 11 3 8 9 10 no match