Problem H. almost good or good or none

Time limit	2000 ms
Mem limit	65536 kB
Statement	Statements (en)
OS	Windows

Zaid has two words, a of length between 4 and 1000 and b of length 4 exactly. The word a is 'good' if it has a substring which is equal to b. However, a is 'almost good' if by inserting a single letter inside of it, it would become 'good'. For example, if a = 'start' and b = 'tear': b is not found inside of a, so it is not 'good', but if we inserted the letter 'e' inside of a, it will become 'good' ('steart'), so a is 'almost good' in this case. Your task is to determine whether the word a is 'good' or 'almost good' or neither.

Input

The input consists of several test cases. The first line of the input contains a single integer T, the number of the test cases. Each of the following T lines represents a test case and contains two space separated strings a and b, each of them consists of lower case English letters. It is guaranteed that the length of a is between 4 and 1000, and the length of b is exactly 4.

Output

For each test case, you should output one line: if a is 'good' print 'good', if a is 'almost good' print 'almost good', otherwise print 'none'.

Sample 1

Input	Output
4 smart mark start tear abracadabra crab testyourcode your	almost good almost good none good

Note

A substring of string s is another string t that occurs in s. Let's say we have a string s = "$abcdefg$" Possible valid substrings: "a","b","d","g","cde","$abcdefg$". Possible invalid substrings: "k","ac","$bcef$","dh".