

**2001/2002 ACM SOUTHERN CALIFORNIA REGIONAL
SCHOLASTIC PROGRAMMING CONTEST**

**Problem 4
Jumble**

Most of you are probably familiar with Jumble(TM), a daily newspaper feature, where you reconstruct scrambled words. So you might be given 'ROYIN' and have to come up with 'IRONY'.

One aspect that makes a particular scrambling of letters 'hard' if it looks like a 'real' word. Thus, 'ROYIN' is tougher scramble than 'NRYIO' because it confuses your brain into thinking that it's already a word. Another aspect that makes a scrambling harder is whether letters are in their correct position. So, 'RIONY' isn't a very good scramble, even if it might kind-of look like a real word.

Your task is to write a program that reads a pair of words and scores the scrambled word by its degree of difficulty as 'good', 'fair', 'poor', or 'not'. A scrambled word is 'good' if none of its letters is in the correct place and it looks 'real' (more on that later). A scramble is 'poor' if it doesn't look 'real' and either the first letter is in the correct place or any two consecutive letters are in the correct place. If the word isn't scrambled at all, it is said to be 'not' scrambled. Otherwise, the scramble is 'fair'.

How do we know if a word looks 'real'? We will use an extremely crude heuristic that the word must alternate between vowels ('Y' is a vowel for these purposes) and consonants. However, certain groups of vowels and consonants are allowed:

AI AY EA EE EO IO OA OO OY YA YO YU
BL BR CH CK CL CR DR FL FR GH GL GR
KL KR KW PF PL PR SC SCH SCR SH SHR
SK SL SM SN SP SQ ST SW TH THR TR
TW WH WR

Also, all double consonants are allowed. No other combinations are allowed, so 'SWR' wouldn't be good, even though both 'SW' and 'WR' are both OK.

Input

The input for your program will be pairs of words, the word followed by the scramble, all upper-case letters, alternating until end-of-file. You may assume that the words are anagrams of one another.

Output

For each pair, you should print how well the second scores as a scramble of the first, as in the sample output. On one line, print the scramble, one space, the appropriate phrase, one space, the word.

Problem 4
Jumble (continued)

Sample Input

SPAM
MAPS
IRONY
RIONY
IRONY
ONYRI
IRONY
IRONY
IRONY
INOYR
IRONY
IOYRN
LITTLEST
EILLSTTT
LITTLEST
IELTTTS
LITERATURE
TERILURETA
POOL
OOPL

Sample Output

MAPS is a fair scramble of SPAM
RIONY is a fair scramble of IRONY
ONYRI is a good scramble of IRONY
IRONY is not a scramble of IRONY
INOYR is a fair scramble of IRONY
IOYRN is a poor scramble of IRONY
EILLSTTT is a fair scramble of LITTLEST
IELTTTS is a fair scramble of LITTLEST
TERILURETA is a good scramble of LITERATURE
OOPL is a fair scramble of POOL