

Prof. Dr. Friedrich, Dr. Lenzner, Boockmeyer, Neumann, Stangl Sommersemester 2017

Woche 01 – (Adv.) Competitive Programming

Abgabe 24.04.2017 17:00 Uhr, über das Judge-Interface

Aufgabe 1 (homework-{e,m,h}). (100 Points – 1 second timelimit)

Paula had a hard day at her school but her teacher had no mercy and gave her lots of homework. One of her tasks is to check, if there are two classmates with similar names. Two names a and b are similar when, if you change to order of the letters of a, a is equals to b.

Please help her with a algorithm, that checks for a given list of pairs, if the two names are similar.

Input The input will begin with p ($1 \le p \le 2000$), the number of pairs. Each pair has two lines, where the first line is a and the second line is b ($1 \le len(a), len(b) \le 8000$). Each letter is a lower case letter between a and z.

Output Print for each pair, if the two lines are similar (1) or not (0)

Points There are three groups of test sets:

Sample Input

- e(asy): For the first group worth 30 Points, you can assume, that $p \le 500$ and $len(a), len(b) \le 1000$.
- m(edium): For the second group worth 50 Points, you can assume, that $p \le 1500$ and $len(a), len(b) \le 5000$.
- *h(ard)*: For the third group of test sets worth 20 Points, there are no additional assumtions.

emma

1 1	
2	Sample Output
otto	Sample Output
toto	1
anne	0