

Problem F

Secret Password Problem

Time limit: 1 second

Suppose you are a detective trying to solve a case. One of your key evidences is stored in a secured cest protected with a password. Fortunately, you have the clue to crack the password. The clue is written in a piece of paper in a form of foreign sentences. Write a script to reveal the password by finding the longest similar sequence of characters among the foreign sentences. The input should be a list of foreign sentences, each sentence is ended with a period. The output would be the secret password for the cest.

Sample Input 1:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent efficitur molestie faucibus.

Sample Input 2:

Ut ultrices mi eu libero dapibus accumsan eu vel sapien. Ut aliquam sollicitudin ligula, non viverra sapiens convallis sed.

Sample Input 3:

Morbi metus tellus, vehicula egestas viverra euismod, rhoncus ac nisl. Nam id auctor aniestat nunc. In id viverra nibh, sed viesta luctus metus.

Sample Output 1:

tur

Sample Output 2:

sapien

Sample Output 2:

esta