

Program Design (II)

Homework #1

Due: 2022/3/22 13:00pm (CST)

NOTE: Please upload your C program to Domjudge before the due date and time.

3. (30%) Longest_common_prefix

Write a program that can find the longest common prefix string in an array of strings. If there is no common prefix, return "No longest common prefix". The input words will be less than 100 words. The length of the word will be less than 100. The First input will let users choose whether it will be case sensitive. The first option (value of 1) is case sensitive, and the second option (value of 2) is case insensitive. If users choose case insensitive and the common prefix has both lowercase and uppercase, please output lowercase for the answer. The second input is the number of the words.

Input Example	Output Example
1 4 Elephant elemental Egg Eight	No longest common prefix
1 4 Elephant Elemental Egg Eight	E
2 4 document dog doing Done	do
2 6 swim under ideas summer english internet	No longest common prefix