Operations for TST

**Operations for TSTs.** Implement keys() and the extended operations introduced in this section— longestPrefixOf() , keysWithPrefix() , and keysThatMatch() for TST.

**Input Format:**

First line contains t number of testcases.

Next tth lines contains strings separated by space.

Input string for keys\_with\_prefix(string)

input string for longest\_prefix\_of(string)

input string for keys\_that\_match(string)

**Output Format:**

Print the strings for keys\_with\_prefix(string) output in ascending order separated by comma.

Print the integer for longest\_prefix\_of(string).

Print the strings for keys\_that\_match(string) output in ascending order separated by comma.

**Sample Input**

2

she sells sea shells by the sea shore

sh

shellsort

.he

Hi Bye Hii Hai Hey Bay of off Half Calf

H

Half

..i

**Sample Output**

she,shells,shore

6

she,the

Hai,Half,Hey,Hi,Hii

4

Hai,Hii