Friday, 16 March 2018

LAB DEMO 06

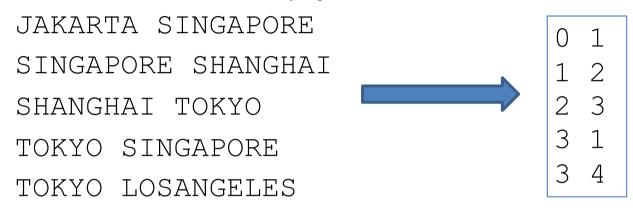
C++ STL map SHORT demo

set is similar, and actually this is similar to unordered version

- constructor
- insert, operator [], find, count
- range-based for loop to access the keys (in ordered fashion)
 - Compare with last week's demo, this is the main key difference
- erase
- empty, size
- http://en.cppreference.com/w/cpp/container/map
- MAGIC stuff for PS4 later: lower_bound, upper_bound

Case Study: Indexing City Names

Given a list of city pairs in several lines, e.g.



Replace these city names into integers from 0 to V-1

- V is the number of distinct city names in the list
 - (V = 5 in the example above)
- The first city name that you see should be given integer 0
- The **next different** city name is integer 1 and so on
- The same city name should be given the same index!

VisuAlgo Training Mode

Now let's try Hash Table Online Quizzes

Make sure that you understand the explanation in: Last week's Hash Table stuffs https://visualgo.net/en/hashtable? slide=1

You can use VisuAlgo Online Quiz training mode to check your basic understanding about Hash Table on "infinite" number of random questions:

https://visualgo.net/training?diff=Hard&n=5&tl=5&module=hashtable
(direct URL problematic now, will debug later; just use main page)

Mock PE 2

Solve https://open.kattis.com/problems/compoundwords

Before this Lab session runs out (xx.45)!!

Start from this template code (share your repl link)

Gradual hints will be added in few minutes interval