DSA Lab Assignment: 2 | DeadLine: Friday 23 Dec 11:59 pm.
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Instructions:

1- Don't copy.
2- Don't copy to any of your peer.
3- 1,2.

Task:

Build an 3-orderred dictionary.
Assume the structure of hash table as follow.
pair<string,String> : pair<key, value> : pair<word,type>

1-Stored words using hash function. and also store its type.ie: verb, noun, adjective.ie:
Hash fuction should return firt three character of word.
<"HomeWork", "verb"> --> <"hom","HomeWork:verb">
<"Alice","noun"> --> <"ali","Alice:noun">
<"Ali","noun"> --> <"ali","Ali:noun">
<"intelligent", "adjective"> --> <"int", "intelligent:adjective">

2-Search a particular word in table, if found then display word and its type, else add that word in table.
For example if word to search is Intelligent, then you have to look at "int" index of hashmap, and compare keyword Inteligent to "iter->second" till you find ":". Value store at "int" index is "Inteligent:addevtive". You only need to compare till ":".

3-Display all words in table.ie output should be look like:
Words: HomeWork,Alice,Ali,Intelligent.

4-Display all words starting with a particular pattern.
ie if given word/pattern is "ali" then the output should be look like:
Alice:noun
Ali:noun

5-Display all verbs, nouns and adjectives.
output should be loo like:
Verbs: HomeWork
Nouns: Alice,Ali
Adjective: Intelligent

6- Display all words stored at a given particular index.
In this function you dont need to compare any thing, just look at "ali" index of hashmap and display all words stored at this index.

7- Erase words stored at first, last, and "int" index of hashmap.

0-Display all words stored in hashmap, output should be like:
Words: HomeWork,Alice,Ali,Intelligent.

8-Reverse the content of hashmap. output should be look like:
Words:Intelligent,Ali,Alice,HomeWork.

9- Make an other hashmap object, and insert 5 pairs. ie:
p(key, value) : p("com","Computer:noun");

10- Swap content of Hashmap and hashmap1.