

Topics in Algorithms

Log report

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# 31.05.2017

Today we had a meeting in which we discussed the code ident style and looked and analyze the pseudo code. We also decide that is a good idea to keep a log of our meetings to keep a better track of our progress. Today we started implementing the most important function RehashAll and we choose date and time for the next meeting (from 09:30 a.m. until 11 a.m 01/06/2017). Since Simeon does not have experience with Python programming language for the next meeting he should prepare and implement the simplest function - Delete, this way he can get a better feeling about the language syntax and get more involve with the project. In the next meeting the group will go over the implementation and discuss if there are any problems with this function. Also, the group will proceed with the rest of the implementation.

# 01.06.2017

Today we finished implementation of the RehashAll(x). Simon checked the Delete(x) function and made some minor changes. There is two more function to be implemented and we need to make create a table of hash functions. Today we made some structural changes too:

1. A class called Table was made in which will represent the second layer of the table list. Like showed in the diagram below we have a hashing function hi that hashes to a list of tables and hj hash function which rehashes this key in the specified by the hi table in the specified table slot.

**class Table** has the following parameters:

**elements** – a list with all elements

**element\_count** – number of elements in this specified table

**max\_element\_count** – as shown in the pseudocode represent ‘M’ the maximum number of element that the table supports before being rehashed

**allocated\_space** – representing the total space of the table

**hash\_function** – holding the chosen hash function

1. The list variable **tables** was renamed to **table\_list** more appropriate name because was confused with the other list variable **table** which holds the list of the specific table’s elements.

Simeon will should implement until the next meeting the Insert(x) functionality and the team will discuss the implementation on their next meeting. Next meeting will be scheduled on Tuesday 6th until then we should be done with the implementation. Run a simple benchmark test and see if the code works well.

# 06.06.2017