Topics in Algorithms

PROCESS REPORT

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N.B.

Since until recently both group members were occupied with preparing and submitting their presentation the progress is about the final project at the current stage is not big. However, in the next week we are expecting to be able to deliver more results.

Current Progress

Until this moment, we agreed what should be the goal of our project. The team decided that most interesting will be an implementation of the Dynamic Perfect Hashing and testing it is performance. Since such a job is already done in Java, we decided to write our solution in Python. To the extent of our knowledge such an implementation has not been done therefore will be interesting and challenging.

Our first job should be first setting clear goals what this Project should show and clear process how we will do that. We also need to come up with a good plan to document the whole process in a clean and understandable manner. Therefore, we will create a version control repository – GitHub so we can keep track on our changes.

When implementing the code focus will be that on readability instead of performance, making sure not to care about micro-optimization. Readability is important to help other people understand the algorithm better and implement it in their language of choice.

Functions

As we already know from the pseudocode we have the following functions:

1. Locate(x)
2. Insert(x)
3. Delete(x)
4. FullRehash(x)

Most time demanding and important functions are Insert(x) and FullRehash(x).

*For the moment, this is an initial plan and can go over the time can undertake some changes.