Assignment #2 - Searching Shakespeare's complete works
Algorithms and Datastructure

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In groups:

We want the words of Shakespeares complete works, saved in a Symbol table. The words should be keys and the values should be the number of occurences in the text. Meaning that "`to be or not to be, that is the question`" would be saved as:
$\{(\text{to} \rightarrow 2), (\text{be} \rightarrow 2), (\text{or} \rightarrow 1), (\text{not} \rightarrow 1), (\text{that} \rightarrow 1), (\text{is} \rightarrow 1), (\text{the} \rightarrow 1), (\text{question} \rightarrow 1)\}$.

You can find the complete works here:

`https://github.com/cphbus-algorithms/general/tree/master/assignments/01%20Shakespeare/shakespeare-complete-works.txt`

You shall in groups create a Java programs, that supports the folowing implementations of Symbol tables:

- `LinkedSymbolTable` using a linked list-based Symbol table.
- `ArraySymbolTable` using an array-based Symbol table.
  - Use your `FlexibleArray` class
- `HashedSymbolTable` using a hashing strategy.
- `BalancedTreeSymbolTable` using a balaced tree as 2-3 or red-black
- messure the time used for each algorithm

The solution accompanied with a description in a README.md file should be uploaded (pushed) to a git repository, and a linked should be send to MBEG **and** AKA, no later than Wednesday March 1. 12:00.