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Compulsory assignment 1 - INF 102 - Autumn 2017

Tasks:

1) Comment on task 1: I assumed input is a sequence of strings which is not separated by whitespace.

2) No comment

3) In task 3, I have implemented Collections.sort. Which is a modified version of merge sort. This guarantees a linearithmic order of growth of the algorithm. (also it is told in the API, that it is Nlog(N)).

4) When is sorting profitable:

   a) In the task, it is asked when the break even is at S. I tested with the lower values first, like s = 5, 10, 50 etc. But in all of those binary search and sort was slower than linear, which does not make sense. In my code the break is around 1170. Which is very unstable.

   b) Every time i run the code, it differs from 10+- . So how could i get a more accurate result? To fix this, I should make another listGenerator method that can also generate values outside of the initial range of values. Then I should be able to see the runtime differences more clearly.

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