Implementation of data structures and algorithms Fall 2018 Short Project 7: Comparison of hashing implementations Thu, Oct 11, 2018

Version 1.0: Initial description (Thu, Oct 11).

Due: 11:59 PM, Sun, Oct 21.

Submission procedure:

- * Create a folder whose name is your netid (NId).
- * Place all files you are submitting in that folder.
- * Use "package NId;" in all your java files.
- * Include the class files also in your zip file.
- * Include a text file named "readme.txt", that explains how to compile and run the code.
- * Zip the contents into a single zip or rar file.
- * If the zip file is bigger than 1 MB, you have included unnecessary files.
- * Delete them and create the zip file again.
- * Upload the zip or rar file on elearning.
- * Submission can be revised before the deadline.
- * The final submission before the deadline will be graded.
- * Only one member of each team needs to submit project.
- * Include the names of all team members in ALL files.

Note that teams have changed.

Team task:

Generate an array of random integers, and calculate how many distinct numbers it has: staticT int distinctElements(T[] arr) { ... } Compare running times of HashSet and your hashing implementation, for large n.