

A03 Autocomplete - Part 1

| 10/17/2022

Attempt 1



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Assignment: Autocomplete - Part 1



Learning Objectives

- Determine the performance characteristics of a software application.
- Implement generic methods
- Implement comparators



Overview

This assignment should be completed with a partner.

Please ensure that you have read the [CSIS-2420 Collaboration Guideline \(https://slcc.instructure.com/courses/817632/pages/csis-2420-collaboration-guideline\)](https://slcc.instructure.com/courses/817632/pages/csis-2420-collaboration-guideline).

In this assignment, you will write a program to implement autocomplete for a given set of strings and positive weights. Given a prefix, the program will find all strings in the set that start with the prefix, in descending order of weight.

To help teams pace themselves, the assignment is broken up into two parts. In this first part of the assignment, you are asked to implement two out of three classes.



Instruction

Find a partner unless you got one assigned already. Ideally, you would have a different partner for each of the team assignments. This allows you to work with multiple peers, strengthen your teamwork skills, and build a network of friends and colleagues that can support you as you transition to a 4-year college or the workplace.

Assignment Instructions:

The instructions are based on an assignment of Princeton's algorithm course.

<http://www.cs.princeton.edu/courses/archive/fall14/cos226/assignments/autocomplete.html> ↗ (<http://www.cs.princeton.edu/courses/archive/fall14/cos226/assignments/autocomplete.html>)

This first part of the assignment requires the implementation of the following two classes: **BinarySearchDeluxe** and **Term**. It should be created in a **package called a03**.

In order to earn full points, they need to pass most of the JUnit tests on CodePost (see rubric). You can submit as often as you like but only up until the deadline.

Before you submit via Canvas, take a screen-shot of the CodePost website that shows your bruinmail, the class that is tested, and the number of passing/failing tests.

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followed.

Checklist:

Here is a checklist that includes frequently asked questions, input files for testing, and possible progress steps.

<http://www.cs.princeton.edu/courses/archive/fall14/cos226/checklist/autocomplete.html> ↗ (<http://www.cs.princeton.edu/courses/archive/fall14/cos226/checklist/autocomplete.html>)

Video:

<https://www.youtube.com/watch?v=x27BMJ9kGRk&feature=youtu.be> ↗ (<https://www.youtube.com/watch?v=x27BMJ9kGRk&feature=youtu.be>)



(<https://www.youtube.com/watch?v=x27BMJ9kGRk&feature=youtu.be>)



Submission

One team member embeds the screenshot from CodePost that shows your bruinmail, the assignment, and the number of passing tests.

(<https://community.canvaslms.com/t5/Student-Guide/How-do-I-embed-images-from-Canvas-into-the-Rich-Content-Editor/ta-p/356>)

Both team members submit the name of the partner and the discussed pebble distribution. If the pebble distribution is not 50/50, include a description that explains the difference.

View Rubric

A03 Rubric									
Criteria	Ratings								Pts
JUnit tests for class BinarySearchDelux view longer description	15 pts Full Marks	13 pts 2 Tests fail	11 pts 3 tests fail	9 pts 4 tests fail	7 pts 5 tests fail	5 pts 6 tests fail	3 pts 7 or more tests fail	0 pts Insufficient No submission or no evidence of passed tests.	/ 15 pts
	No more than 1 test fails								
JUnit tests for class Term view longer description	15 pts Full Marks	13 pts 2 Tests fail	11 pts 3 tests fail	9 pts 4 tests fail	7 pts 5 tests fail	5 pts 6 tests fail	3 pts 7 or more tests fail	0 pts Insufficient No submission or no evidence of passed tests.	/ 15 pts
	No more than 1 test fails								
Total Points: 0									

Keep in mind, this submission will count for everyone in your Project Groups group.

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