Intro.java

AJA.jaya

```
Course Management System {
    Data Structures Final
    Presentation() {

        < Abigail, Audrey, Jeffrey >

}
```

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}

Background;

A course management system is a program that allows educational institutions to efficiently manage their courses, students, and related information. It enables administrators to add, remove, modify courses, view course details, search for courses, and manage student enrollments.

Objective {

The objective is to determine the most efficient data structure for implementing a Course Management System. The goal is to minimize the time complexity of these operations and maximize system performance.

}

Solution {

To address the problem, a comparative analysis of different data structures can be performed to identify the most efficient one for the Course Management System.

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DataStucturesUsed.java

```
Data_Structures_Used {
    Linked List;
        ArrayList;
            Hash Map;
                Binary Search Tree;
}
```

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Features.java

Features_available {

addCourse

allows the user to add a new course to the system.

addStudent

allows the user to add a student to a particular course.

removeCourse

allows the user to remove a course from the system.

searchCourse

allows the user to find a course based on the course's name.

modifyCourse

allows the user to update the details of an existing course.

removeStudent

allows the user to remove a student from a specific course.

viewCourse

allows the user to view the details of all stored courses.

}

WOW.java

WordsOfWisdom.java

```
1
2
3
4   < “Deleted code is debugged code.” >
5
6
7    // words i live by
8
9                  — JeffTheDebugger
10
11
12
13
14
```

A ‘graph’ is {
Worth a Thousand
Words

}

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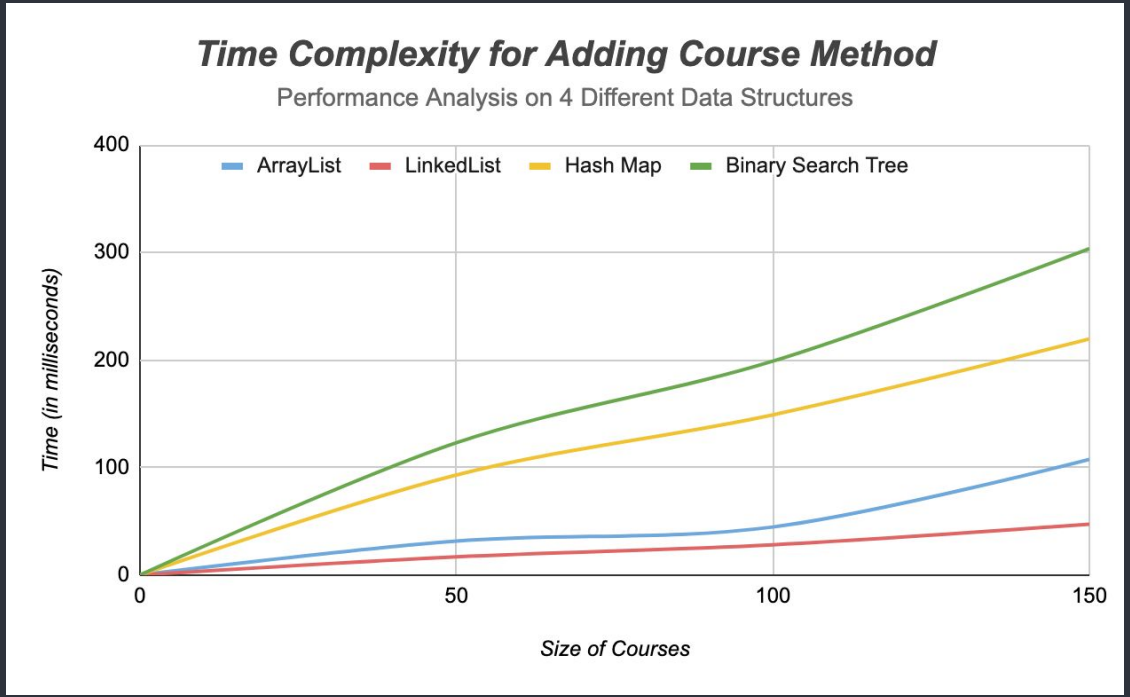
Benchmark.java



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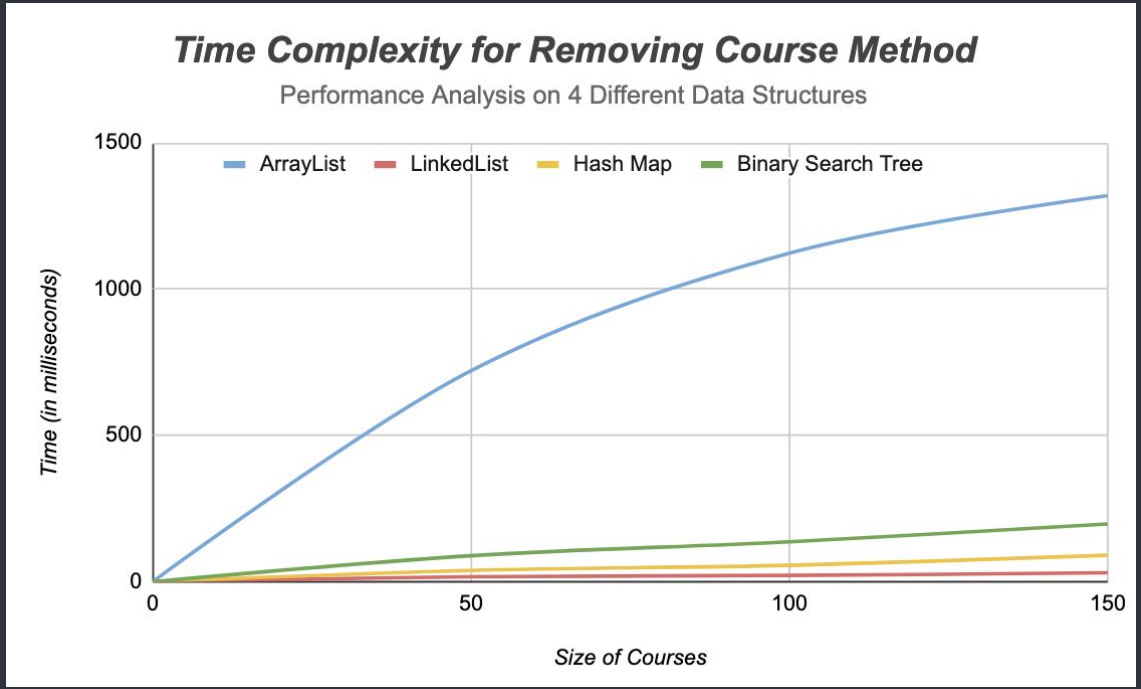
Benchmark.java



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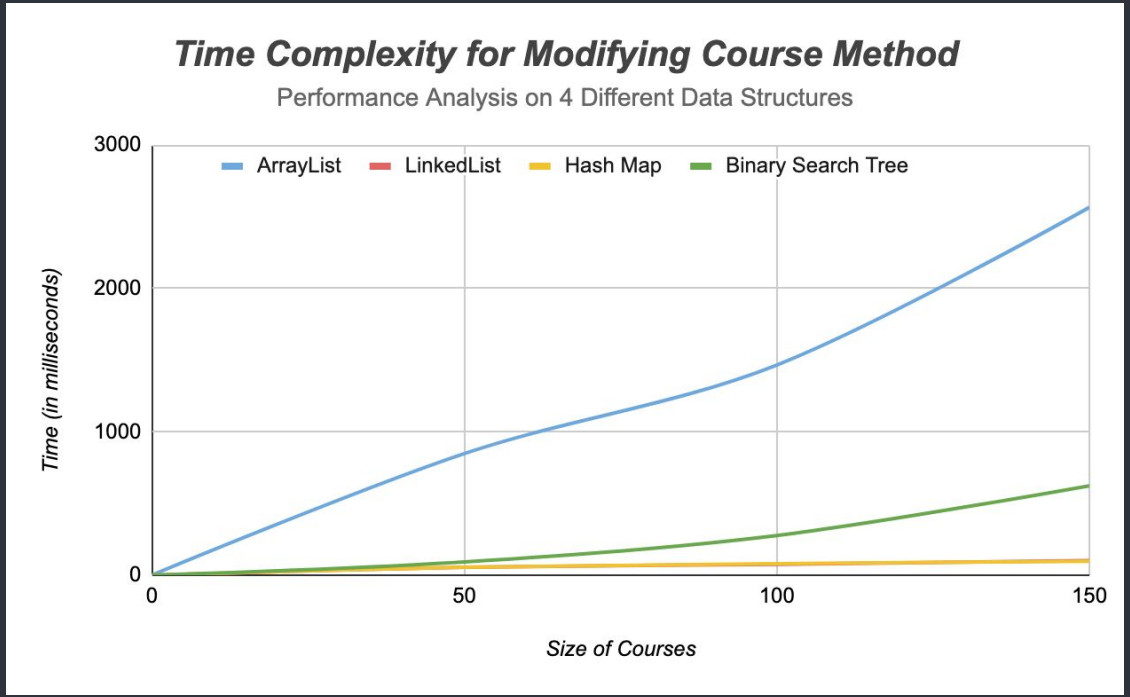
Benchmark.java



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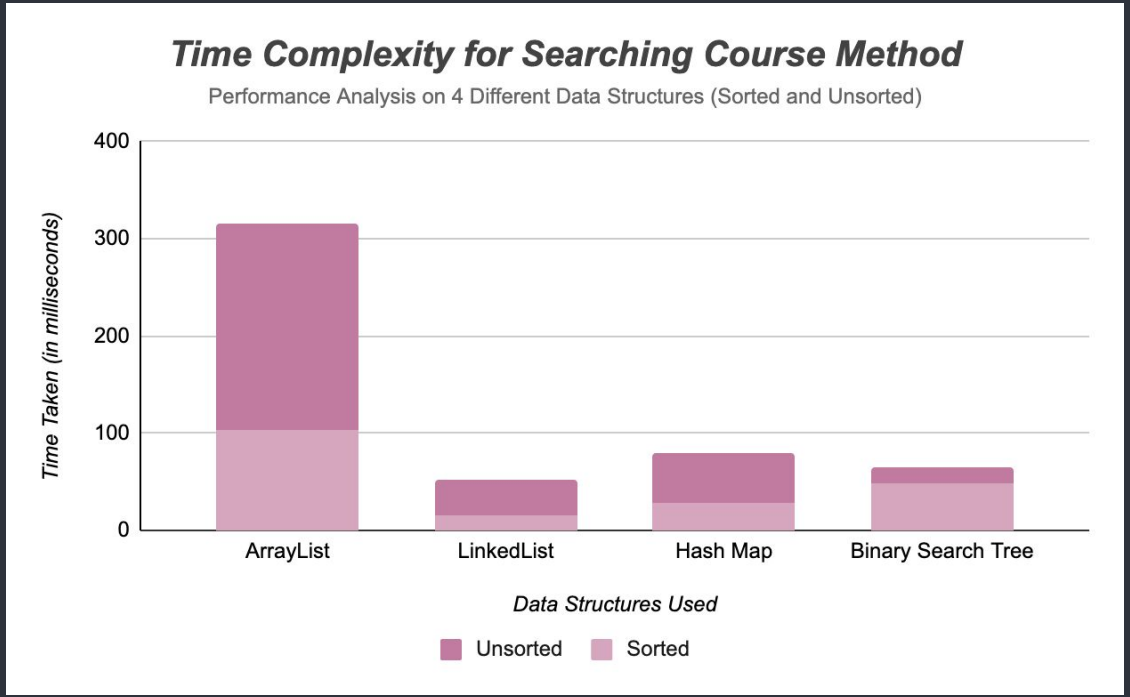
Benchmark.java



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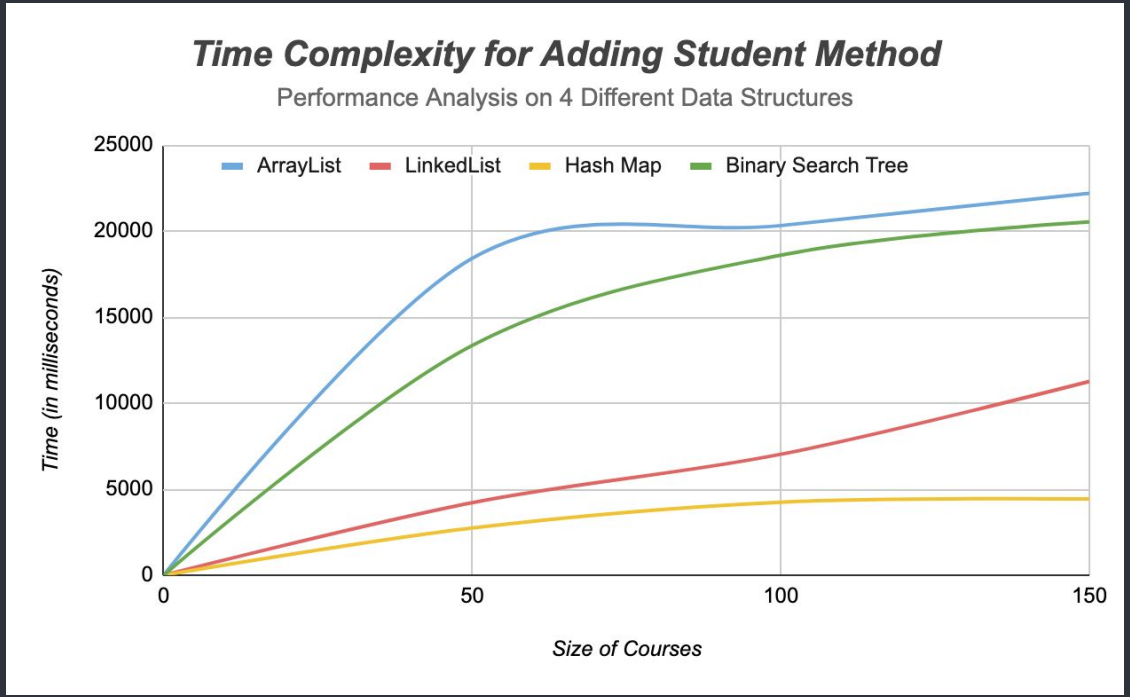

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Benchmark.java