

**GTU Department of Computer Engineering**

**CSE 222/505 - Spring 2020**

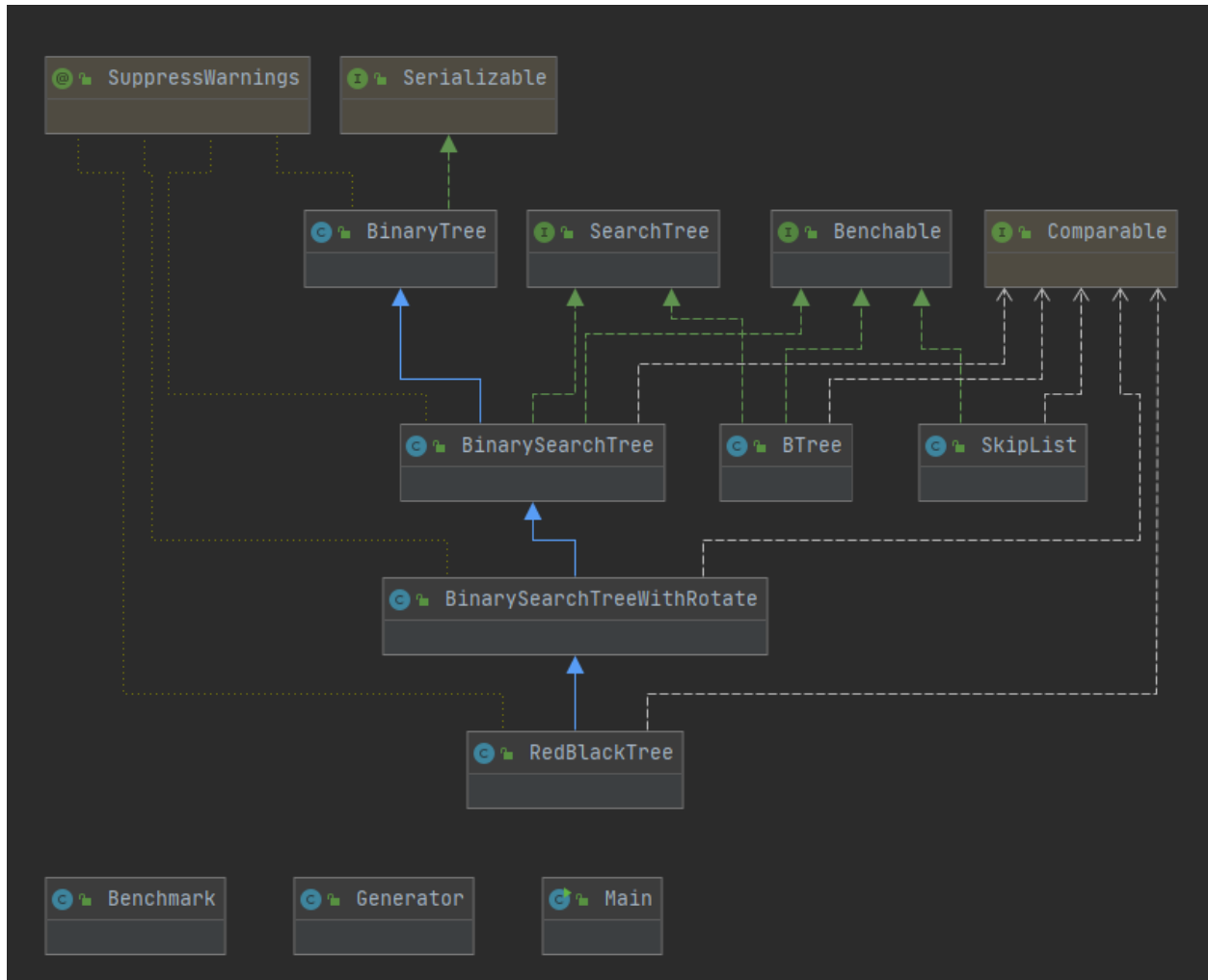
**Homework 7 Report**

**Q3**

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# 1. Class Diagrams



## 2. Problem Solution Approach

Started with creating Benchable interface, to gather all this classes that I needed to benchmark under a general interface. This way I could create one generic method to test all Benchable things.

After that I implemented this Benchable interface for every class that I needed to benchmark.

This interface only specifies add remove and getName methods.

Get name gives the class name of the adt.

After that I created the benchmark class and generic benchmark methods

Methods create random sized adt, add 10 random numbers and delete those 10 numbers. Only calculates running time for this addition and deletions, not the generation part.

I used the generator class from last homework, I wrote.

I included the running result as output.txt but you can also run the benchmark since it does not take too much time to run like the last homework.

Benchmarks done with 6 cores @3.8ghz, 1gb ram of JVM.

### 3. Results

