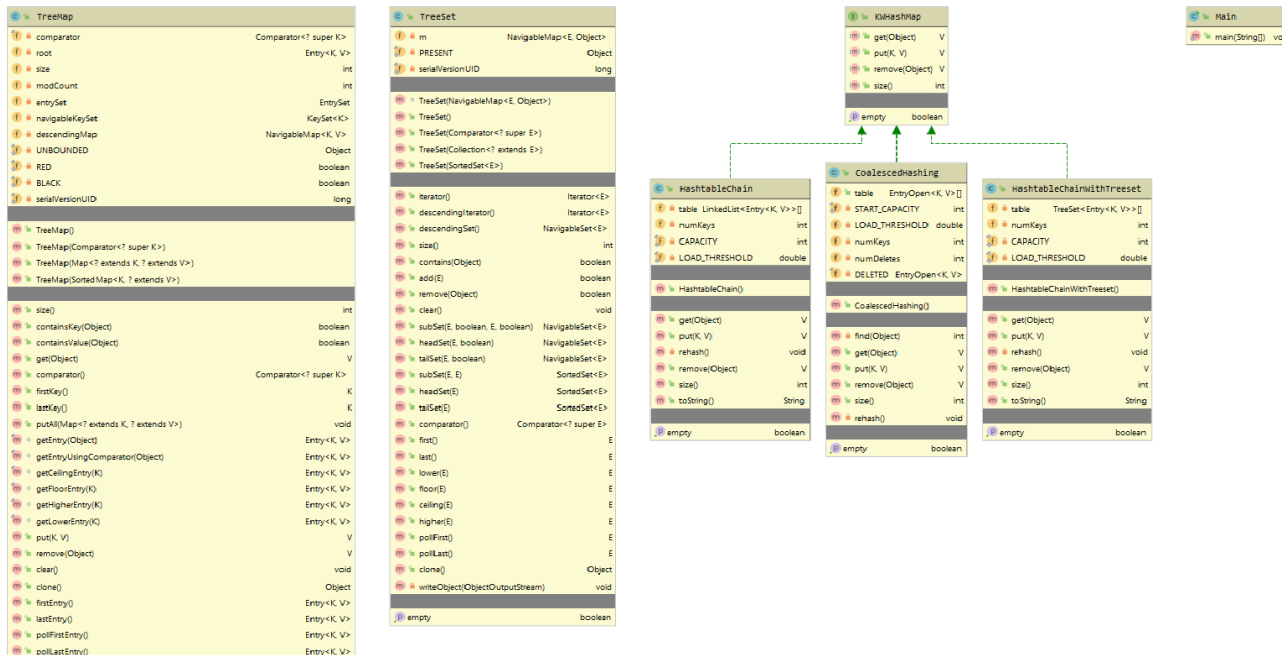


**GIT Department of
Computer
Engineering
CSE 222/505 - Spring
2021 Homework 5
Report**

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CLASS DIAGRAM



Calculate Performance

For 10 capacity:

HashtableChain run time 4802200

HashtableChainWithTreeSet run time 1640800

CoalescedHashing run time 1262600

For 100 capacity:

HashtableChain run time 2046900

HashtableChainWithTreeSet run time 1984000

CoalescedHashing run time 1093200

For 1000 capacity:

HashtableChain run time 4221400

HashtableChainWithTreeSet run time 1742000

CoalescedHashing run time 3017100

INPUT

Show add index 3 two element access for next also access table[4]
index[3].next=table[4]

```
final long startTime = System.nanoTime();
    CoalescedHashing a =new CoalescedHashing();
    a.put(1,2);
    a.put(2,32);
    a.put(3,22);
    a.put(47,21);
    a.put(53,23);
    a.put(62,24);
    a.remove( key: 47);

    final long duratio = System.nanoTime() - startTim;
    System.out.println("CoalescedHashing run time "+ duratio);
    int i=0;
    while(i<a.table.length)
    {
        if(a.table[i]==null)
        {
            System.out.println("null");
        }
        else
        {
            System.out.println(a.table[i].getValue());
        }
        i++;
    }
    System.out.println("Enter key '3' :"+a.table[3].getValue());
    System.out.println("Enter key '53' :"+a.table[3].getNext().getValue());
```

}

System.out.println("Enter key '53' :"+a.table[3].getNext().getValue());
System.out.println("Enter key '53' :"+a.table[4].getValue());
SHOW SAME VALUE

OUTPUT

HashtableChain run time 2424900

HashtableChainWithTreeset run time 1993600

CoalescedHashing run time 3669200

For capacity 10

null

2

32

22

23

null

24

24

null

null

Enter key '3' :22

Enter key '53' :23

Table ELEMENTS

*3 and 53 write same index so
table[3]=22 and table[3].next=23*