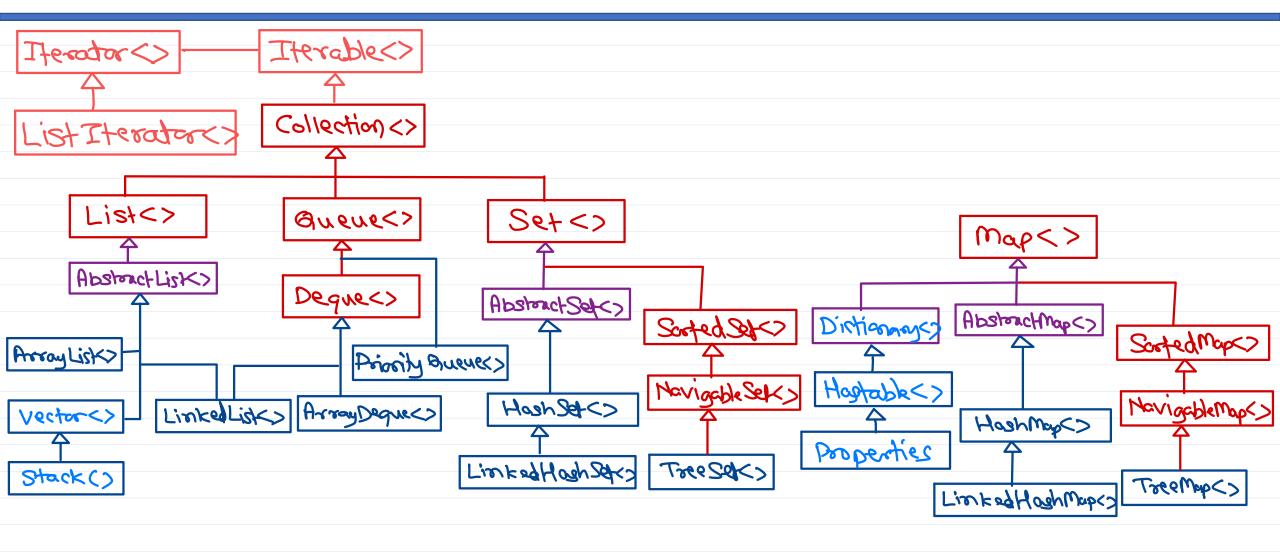


Core Java

Trainer: Nilesh Ghule

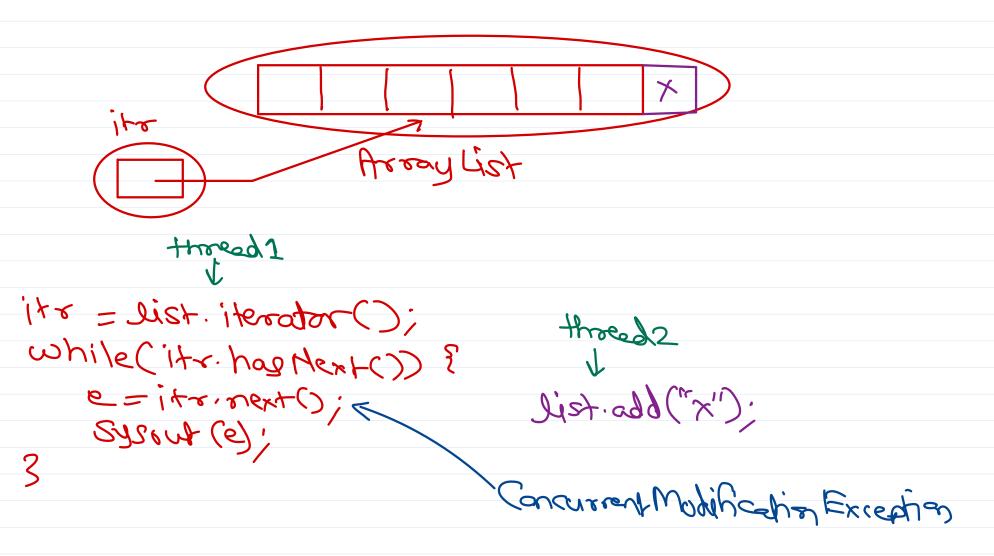


Java Collection Framework



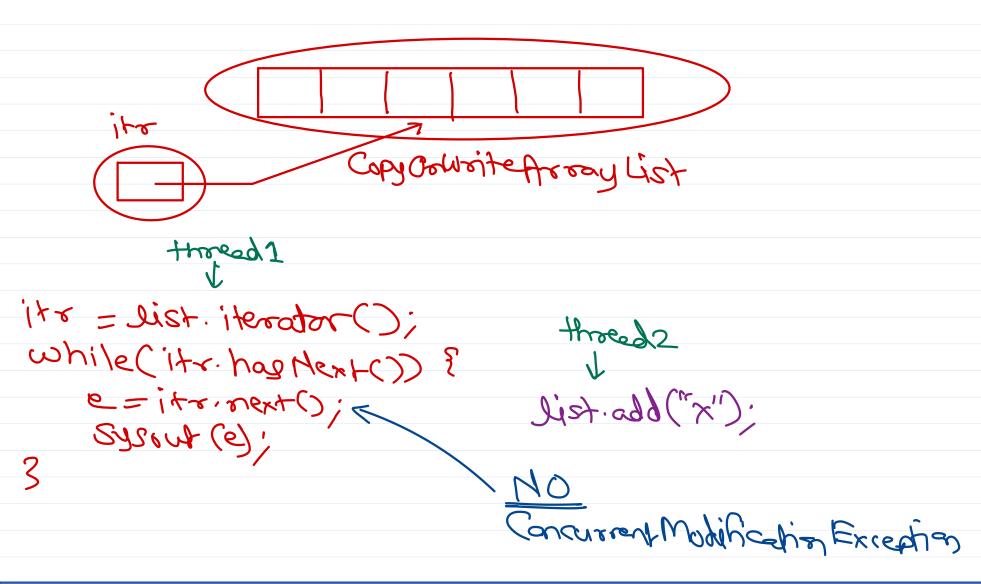


Fail fast iterator



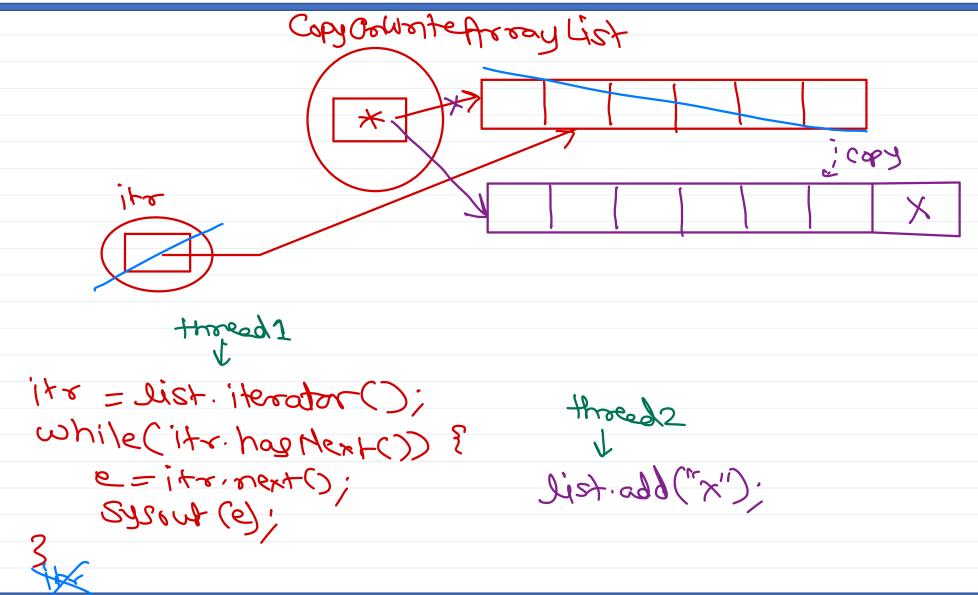


Fail safe iterator

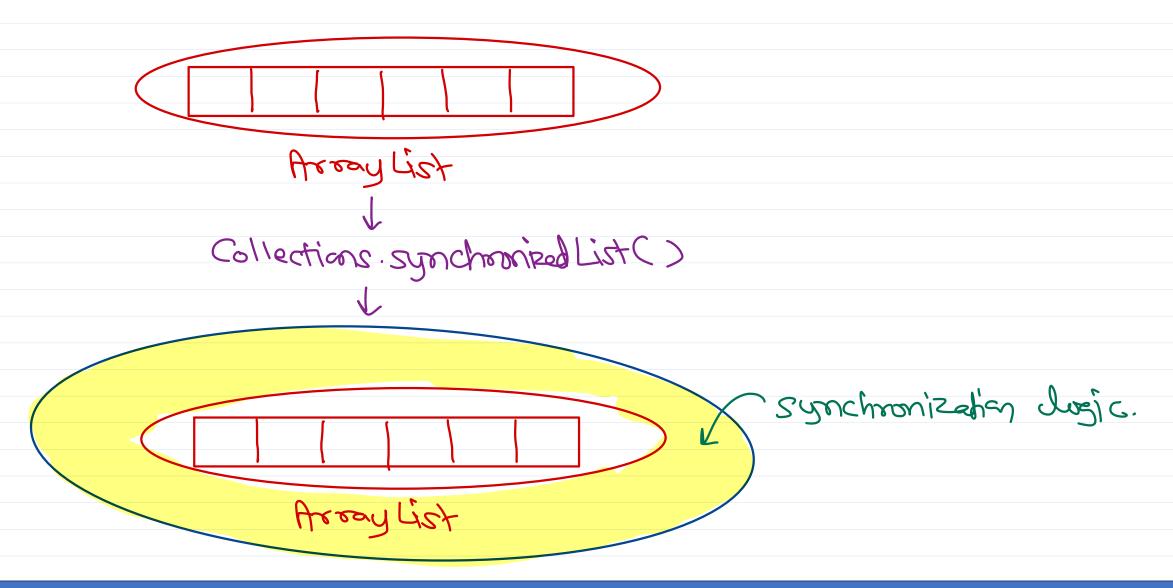




Fail safe iterator

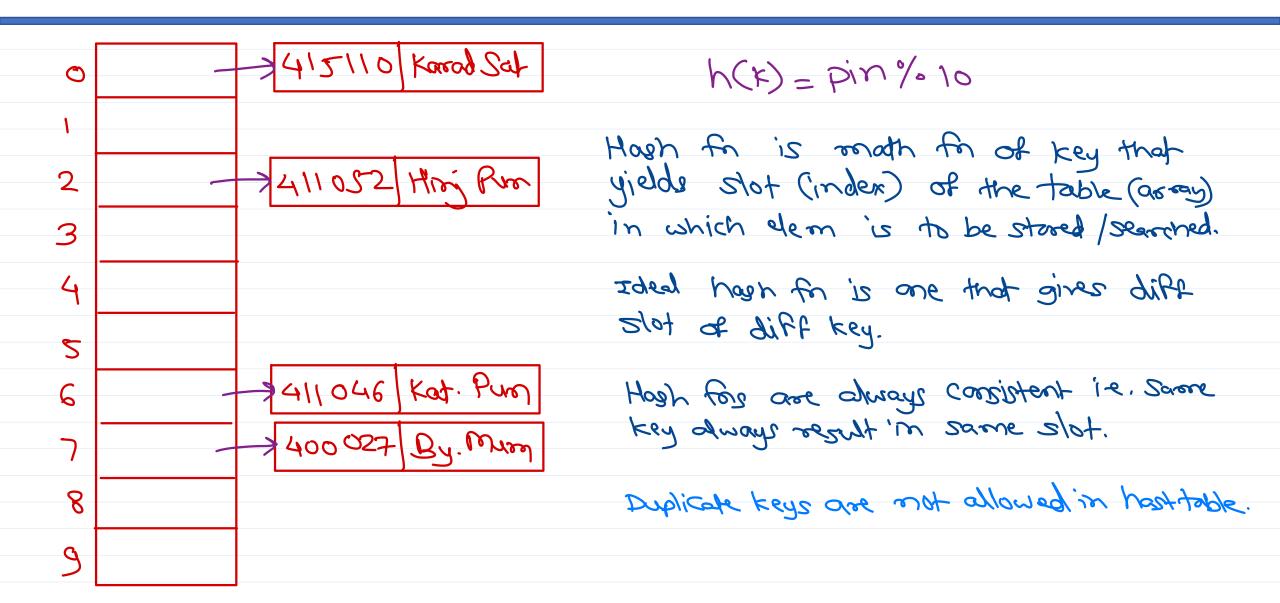






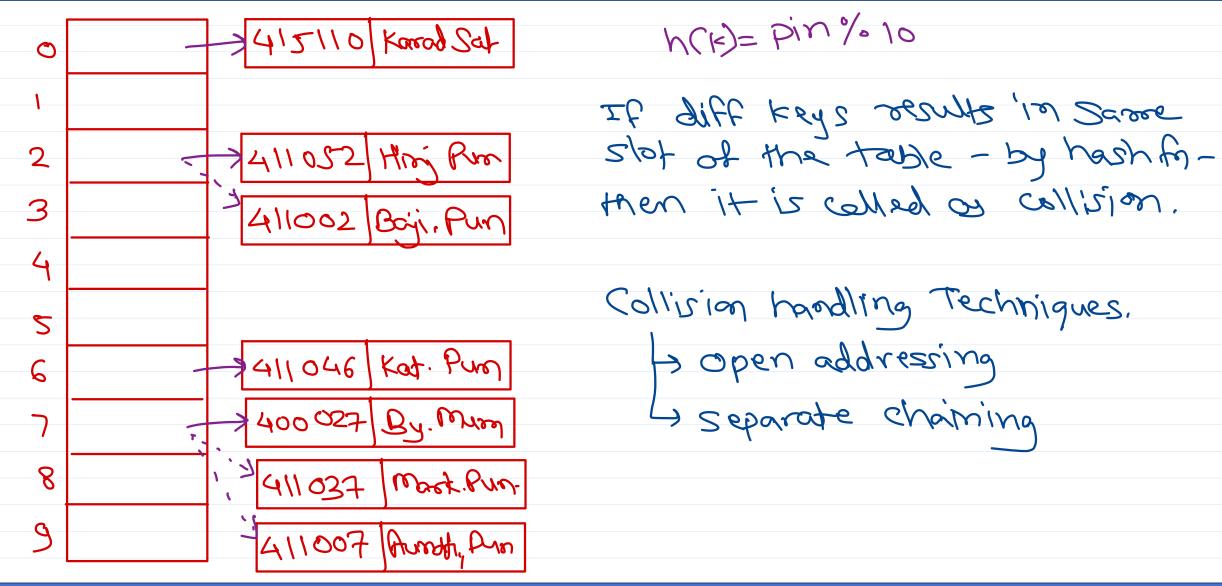


Hash table - basics





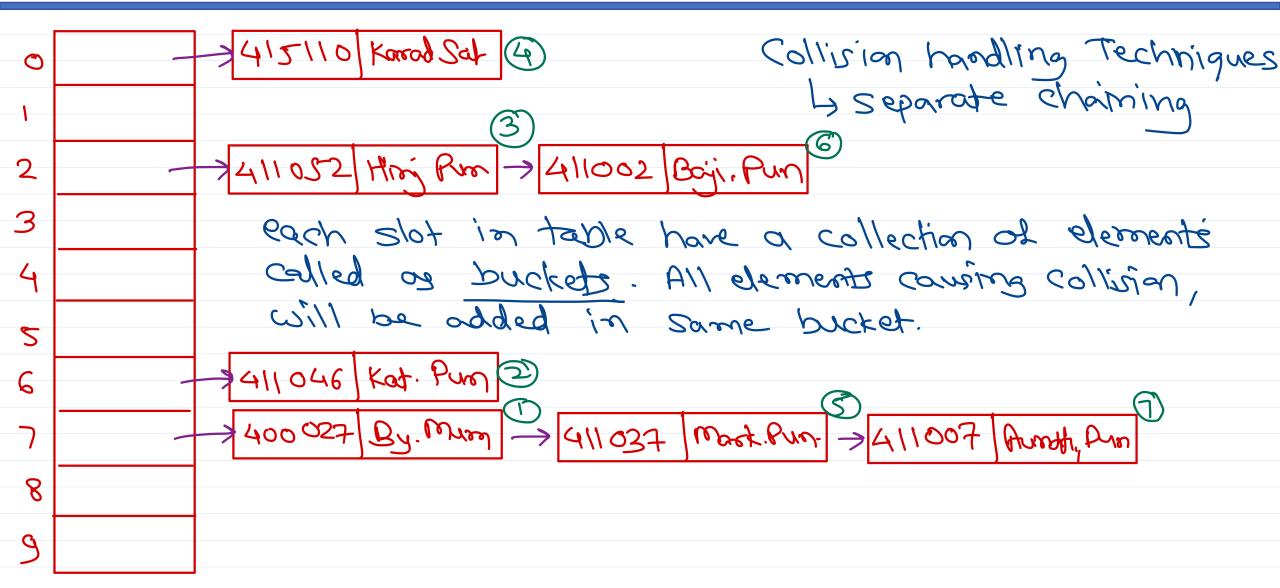
Hash table - collisions





Hash table - Separate chaining

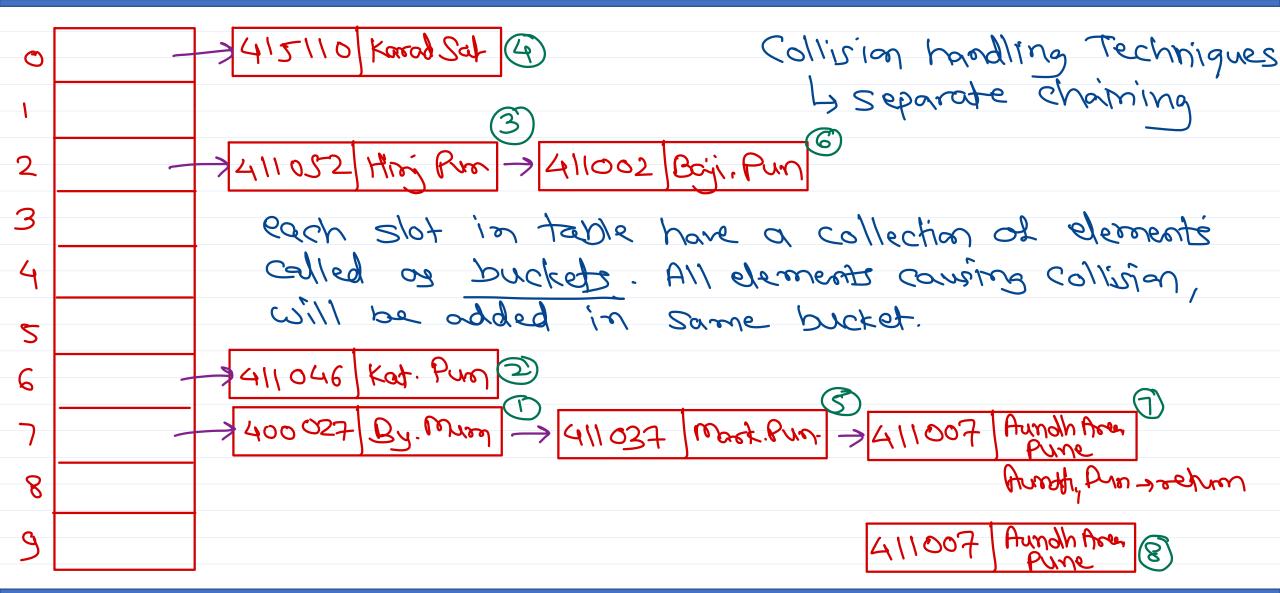
M(K)=. PIN %. 10





Hash table - put() - duplicate key







Hash table - Load factor

Muenger of brokets

| ٩٠٩. | Mnee of beggin | Mura of buckets | Load Factor |
|------|----------------|-----------------|-------------|
| | 7 | 10 | 0.7 |
| | (0 | 10 | ſ |
| | 15 | 10 | 1.5 |
| | | | |



Sets vs Maps

```
Hash Set < x> = Hash Map < x, null>
Linked HoshSet <k> = Linked Hosh Map< K, nul)
 TreeSet< x> = TreeMap< x, null>
Set < Integer> 3 = new HowhSet<>();
S. add (41104B);
                                                                         M(K)=. PIN %. 10
                                            415110
                                                         (4)
                                   0
S. add (4110003);
                                                         → 411002
                                           7411052
                                  3
S. add (415+16).
                                   2
                                                        2
                                            411046
                                             400 027
                                                         → 411 037
                                                                       -411007
```





Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>

