

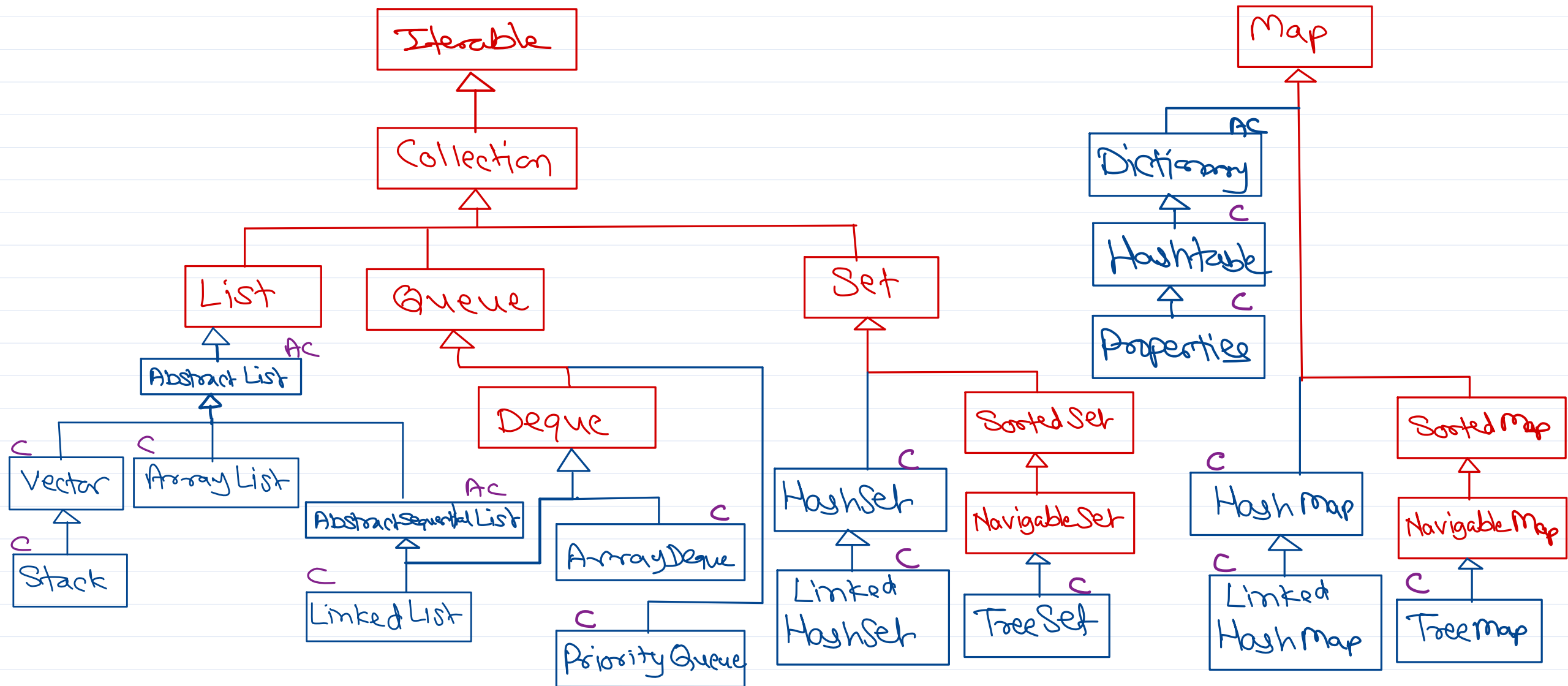


Core Java

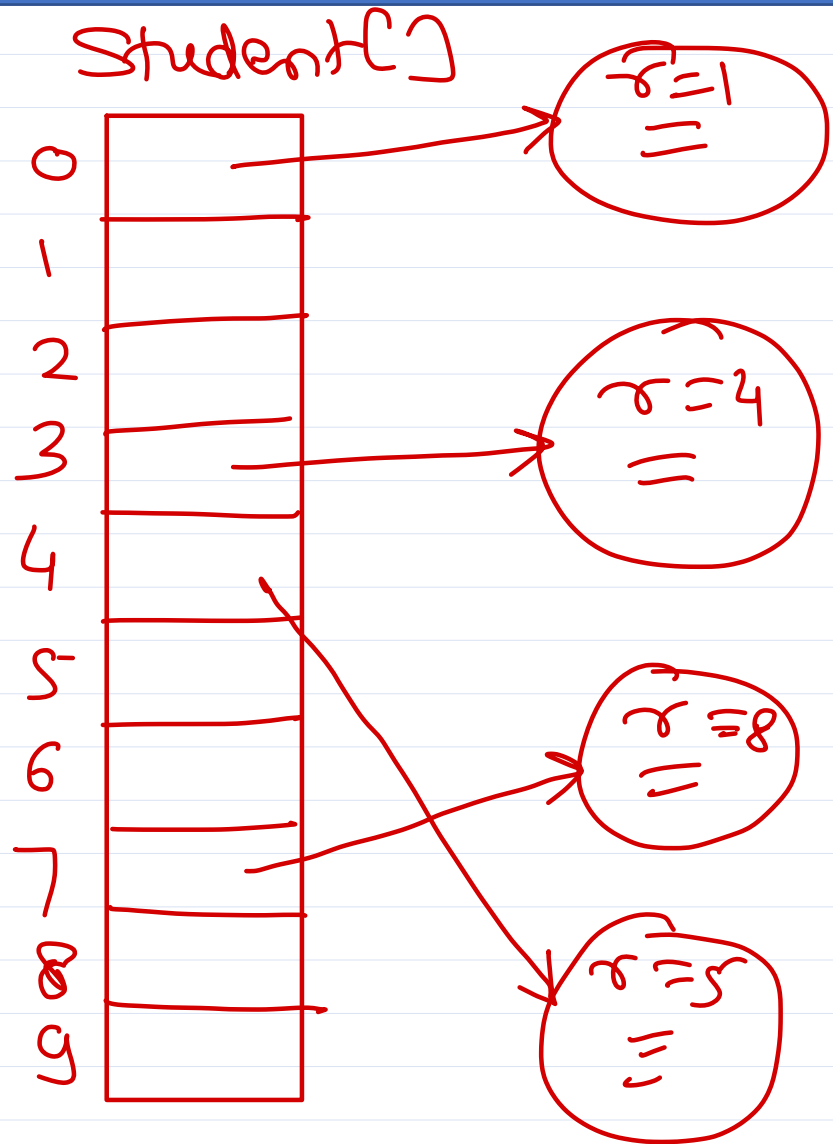
Trainer: Nilesh Ghule



Collection hierarchy



key = roll, value = Student



$$\text{index} = \text{roll} - 1$$

array \rightarrow table

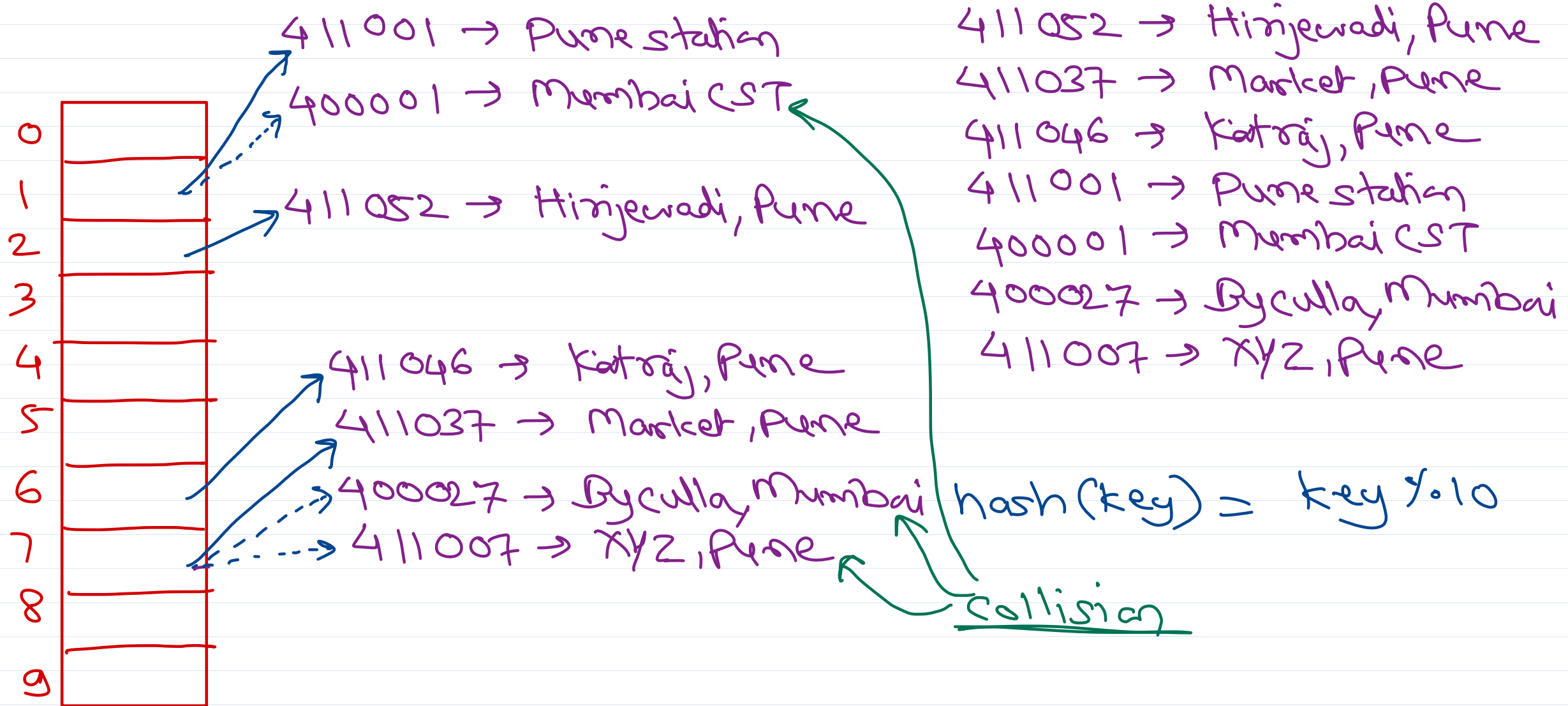
index \rightarrow slot

math formula \rightarrow hash fn

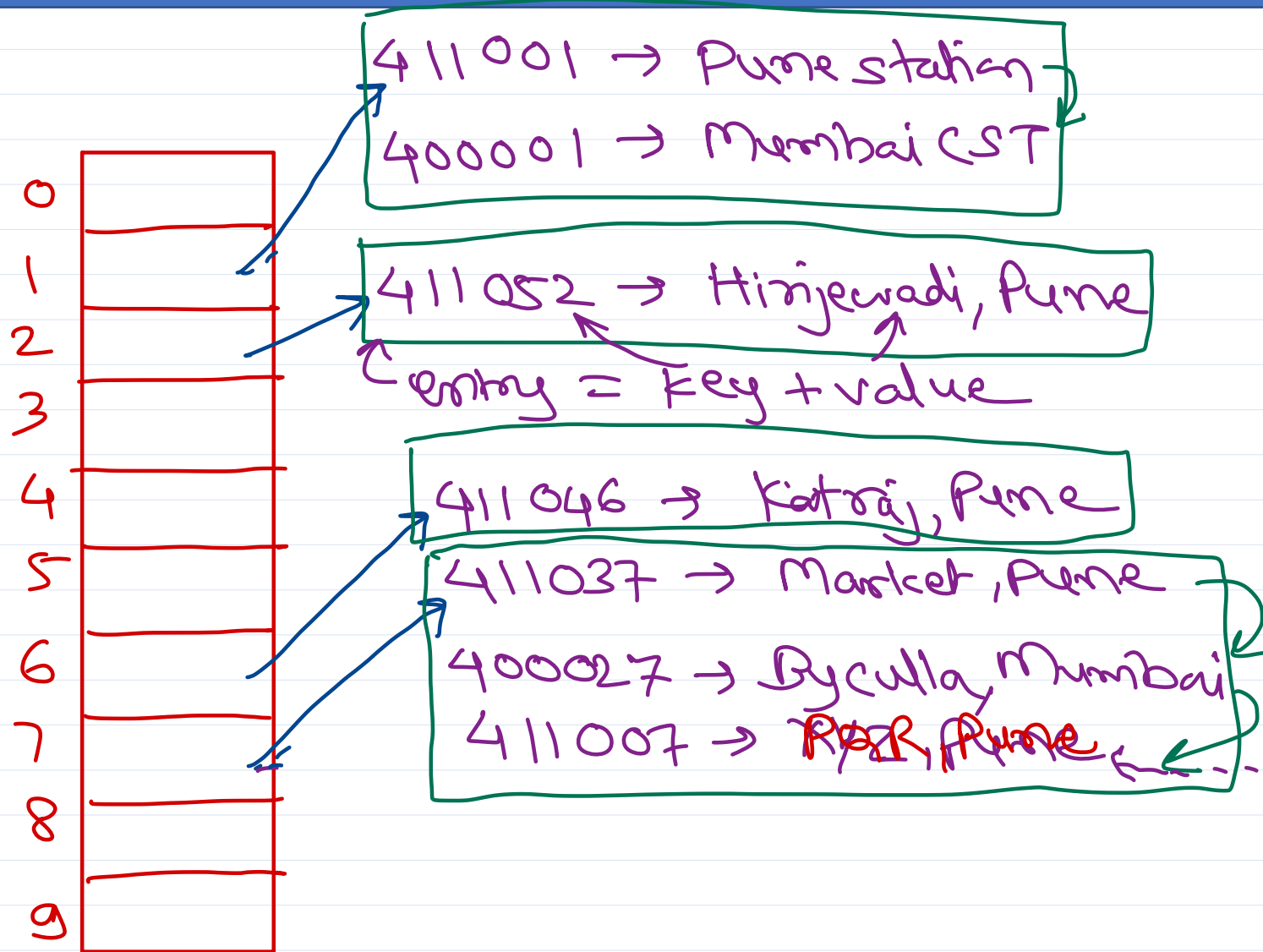
hash fn is math fn of key, that yields slot of the table in which element is to be stored/searched.



key = pin, value = "area"



key = pin, value = "area"

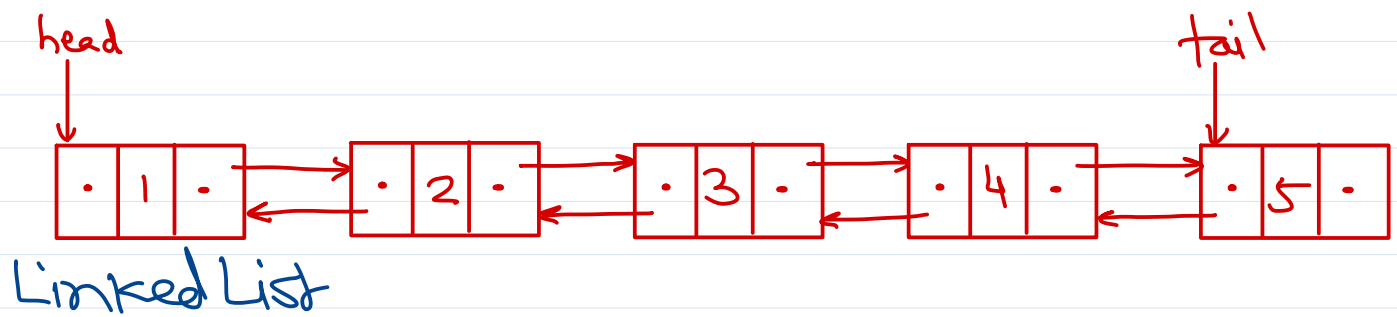
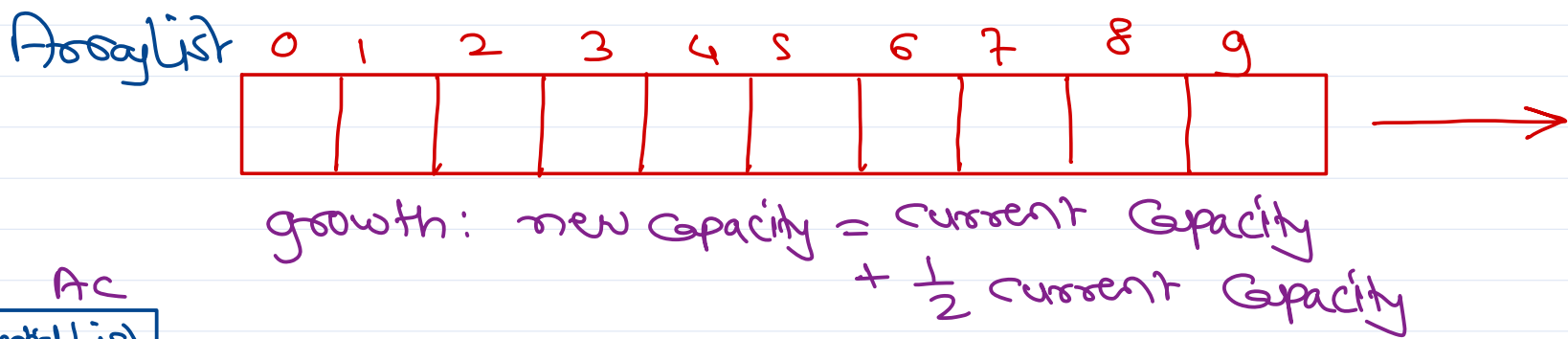
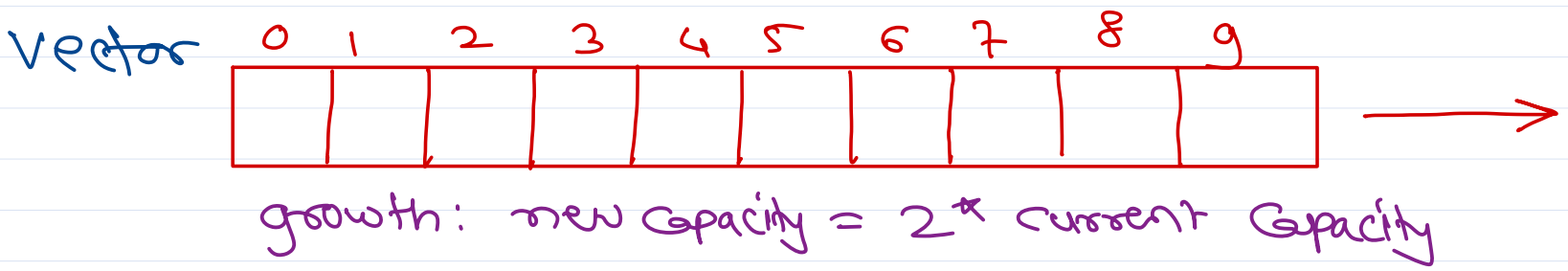
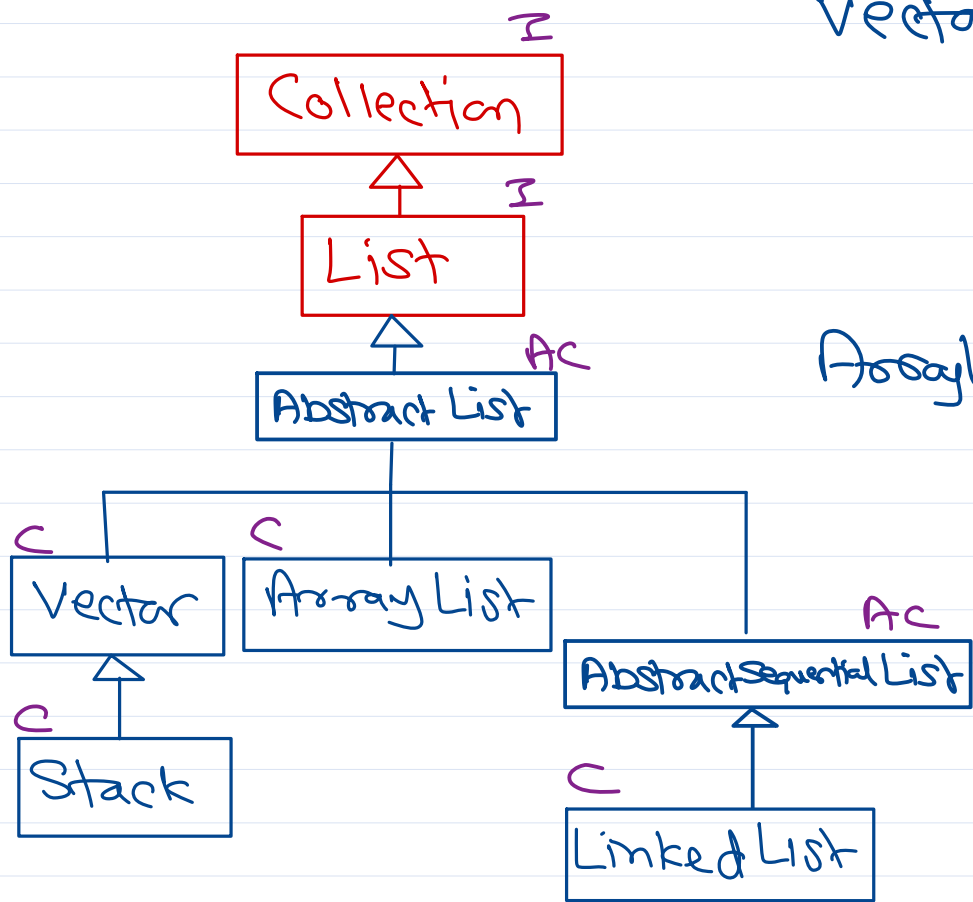


411052 → Hinjewadi, Pune
411037 → Market, Pune
411046 → Kothrud, Pune
411001 → Pune station
400001 → Mumbai CST
400027 → Byculla, Mumbai
411007 → XYZ, Pune
411007 → PQR, Pune

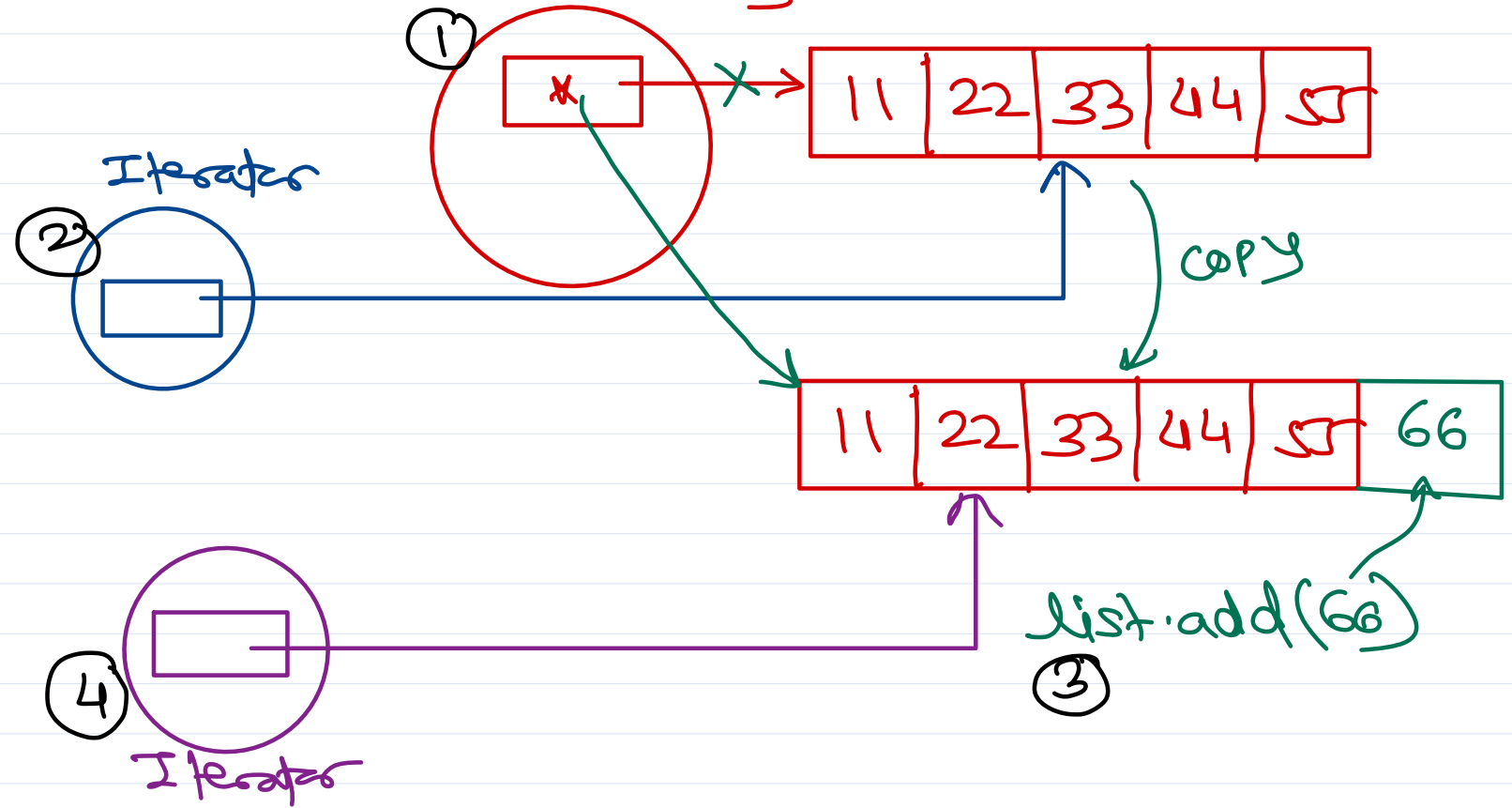
$$\text{hash}(\text{key}) = \text{key} \% 10$$
$$\text{load factor} = \frac{\text{num of entries}}{\text{num of slots}}$$



List hierarchy



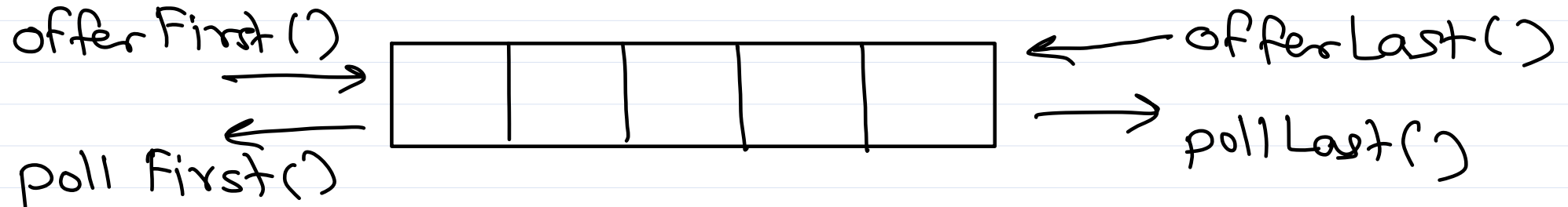
COW Array List



Queue



Deque





Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>

