





HASH MAP: $O(1)$

R	M
0	1
70	42
3	35
56	
31	6

HM Structure

[ ,  ,  ,  , null]

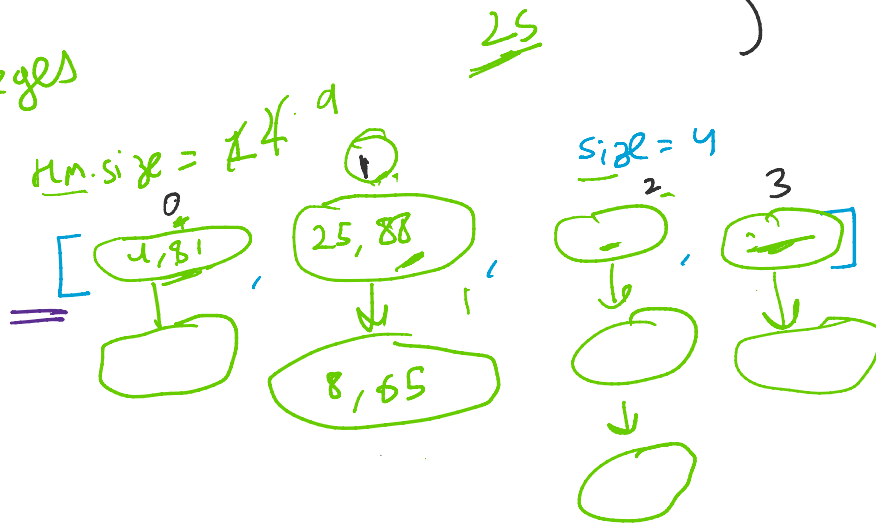
23891 % 4 = abs(0, 1, 2, 3)
Math: abs()

LL $\langle \text{Node} \rangle$

Node(k, v)

Math: abs()

int
Integers



Node(k, v)
↓
hashCode()

Node(8, 65)

54 177 % 4 = 1

lambda ≤ 2.0

size of HM = $\frac{2}{4} = 0.5$
size of array

$\frac{9}{8} = 1.1$

[, , , , , , ,]

O(1) ≈ 8

① 8 24 36

② 8 1 36

hm.get(25)

25 % size of array = 1