

Chaining \rightarrow Linked List

values \rightarrow 70, 49, 27, 62, 43, 10, 25, 34, 55

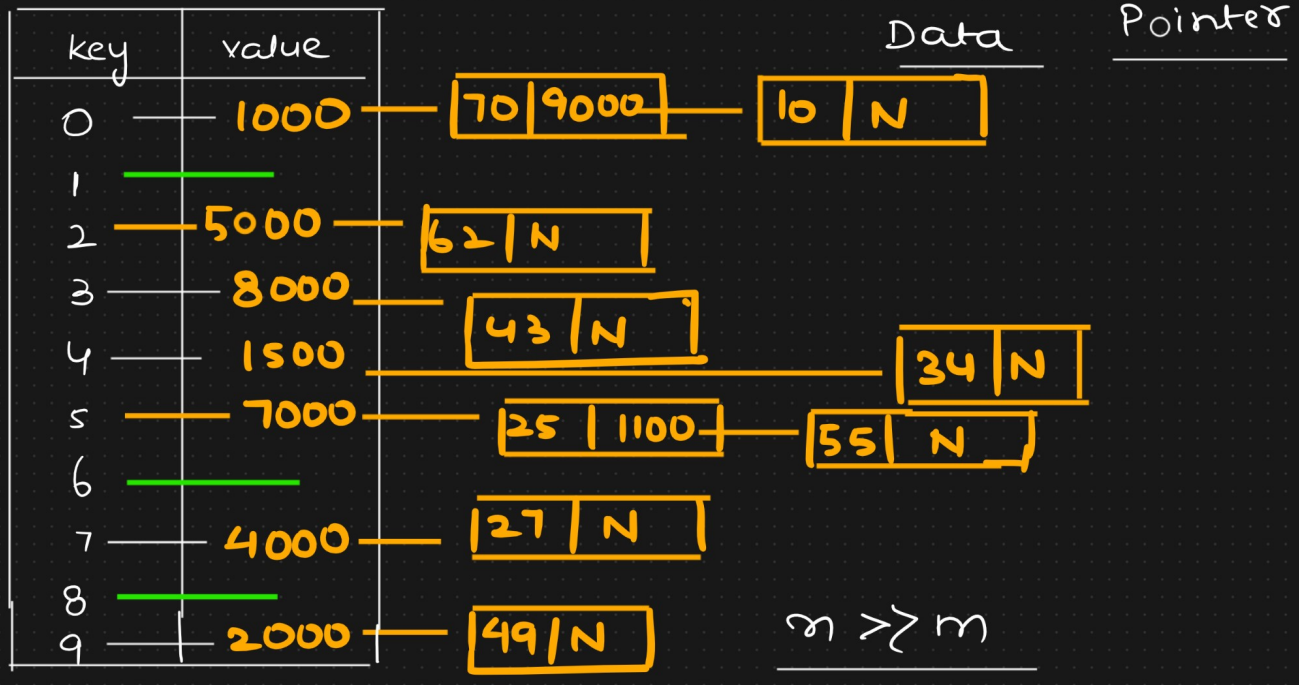
1000 2000 4000 5000 8000 9000 1100

$m = 10$

$hf(v) = v \% m$

Linked List

\rightarrow Node



$$hf(10) = 10 \% 10 = 0$$

$$hf(55) = 55 \% 10 = 5$$

Advantage \rightarrow Store as many data as we want

\rightarrow Hash Table

Disadvantage \rightarrow Extra space to store the data

\rightarrow space is available inside hash table

Search → worst case → $O(N)$

best case → $O(1)$

Deletion

Insertion → $O(1)$