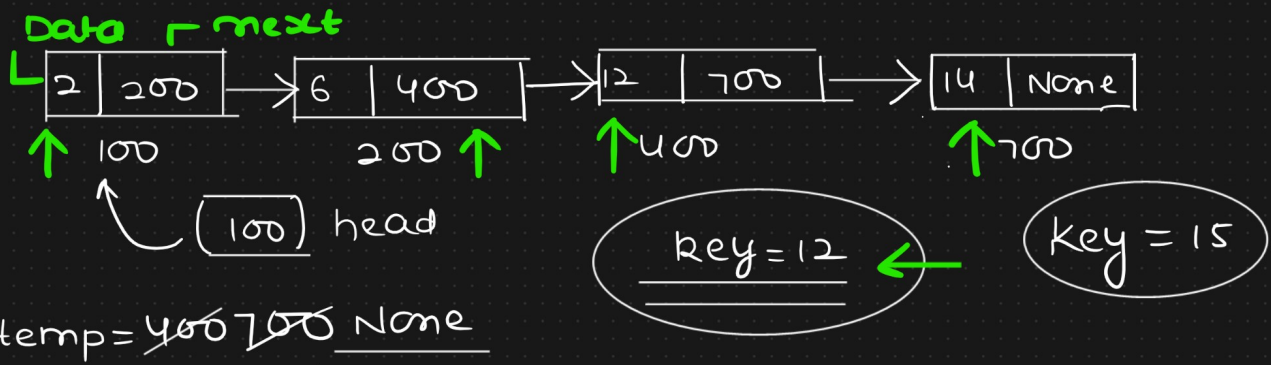


Searching in Linked List



Binary search (Random access not allowed)

$$\rightarrow \underline{\underline{mid}} = i + (j - i) // 2$$

Linear search → $\underline{\underline{O(n)}}$ temp = ~~100~~ ~~200~~ 400

```
temp = self.head
while temp:
    if temp.data == key:
        return True
    temp = temp.next
return False
```

True

→ (15 is not present inside the LL)

n → # nodes

Linked List → modified version of binary search

Skip List → Advance of DSA