

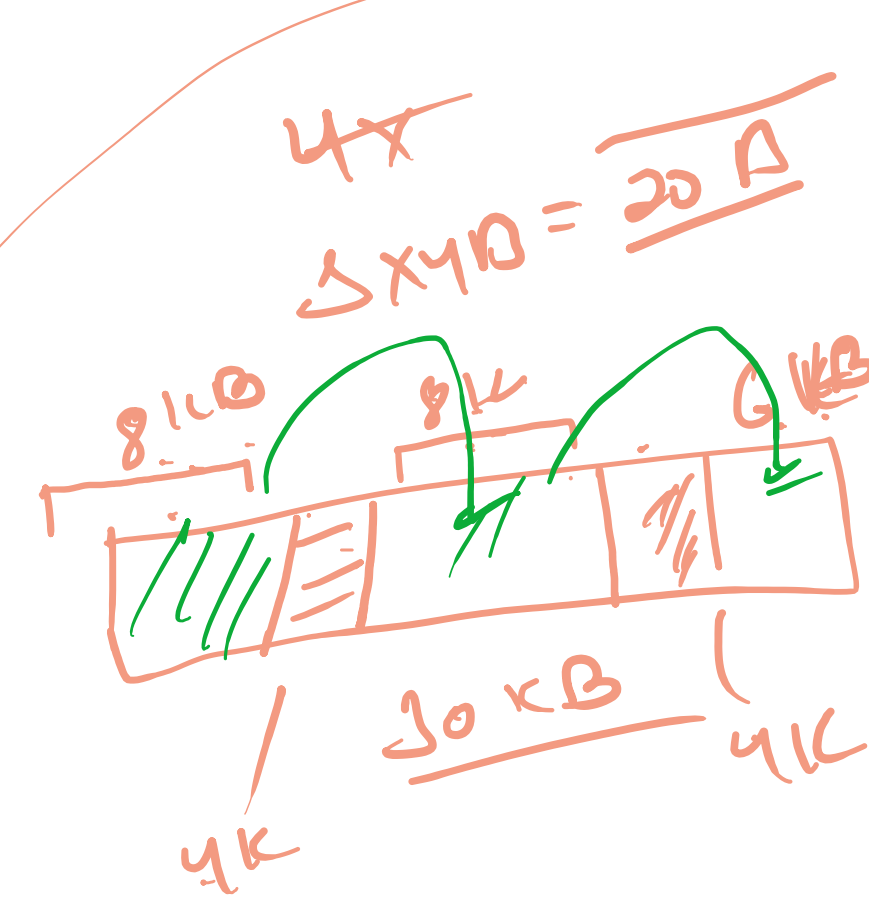
Linked List

① non-continuous

② Continuous

USC

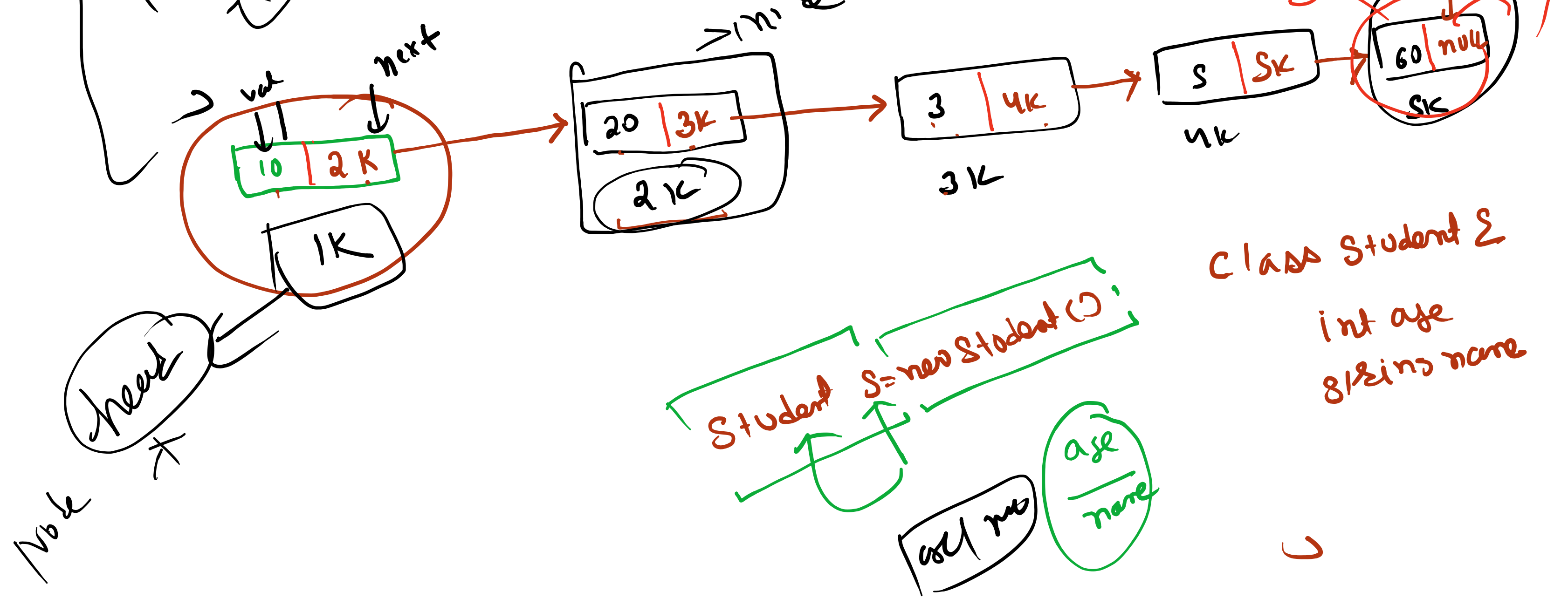
① Continuous



22KB
8KB

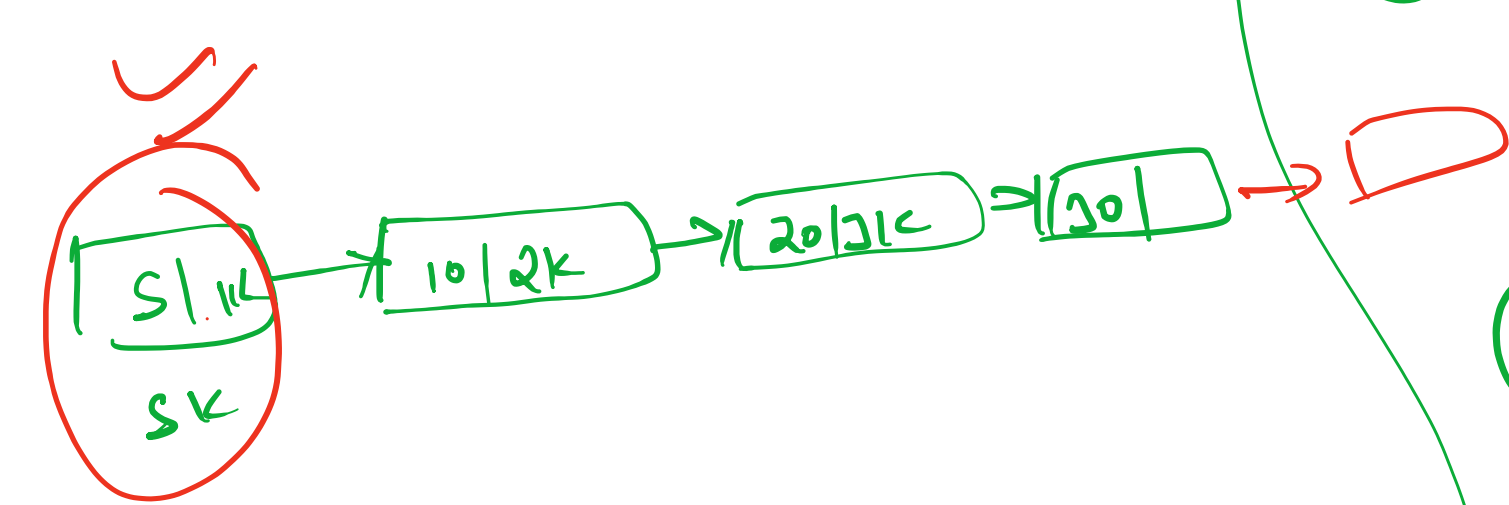
non-continuous → complexity

Class Node {
int val;
Node next;
}



Class Student {
int age;
String name;
}

Add



① Add → Add First
→ Add Last
Add at index

② get → get first
get last
get at index

③ Remove → Remove first
Remove last
Remove at index

④ display

head = 2K
tail = 1K
size = 0

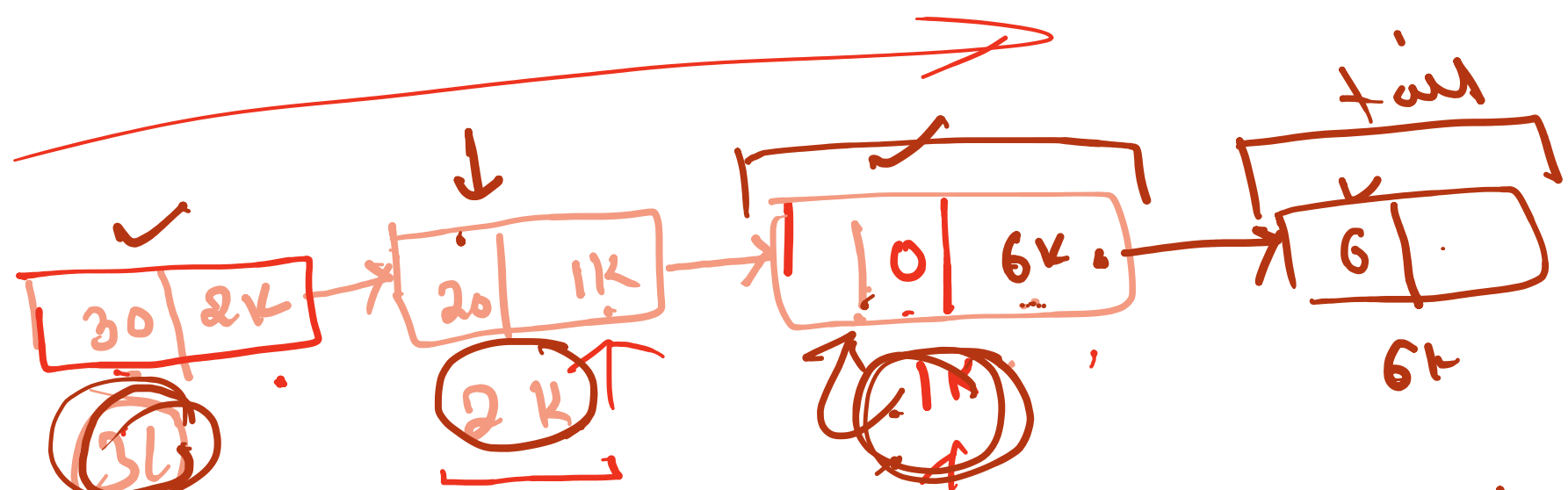
```
public void addFirst(int item) {  
    Node nn = new Node();  
    nn.val = item;  
    if (size == 0) {  
        head = nn;  
        tail = nn;  
        size++;  
    }  
    else {  
        nn.next = head;  
        head = nn;  
        size++;  
    }  
}
```

30 20 10
arr
i++

Node temp = head

LinkedList ll = new LinkedList();

ll.addF(10)
ll.addF(20)
ll.addF(30)



while (temp != null) {
 System.out.println(temp.val);
 head = head.next;
 temp = temp.next;
}

tail.next = null
tail = null

Singly

