graph_1.txt - Notepad

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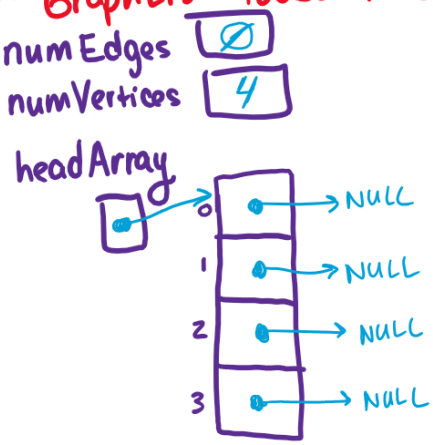
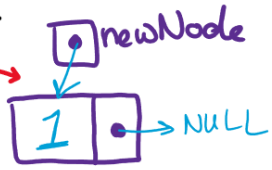
```
4
0 1
1 2
2 3
0 3
```

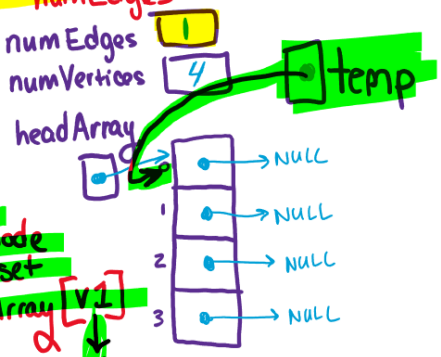
you have already (before calling addEdge function) created your GraphList object in memory & the constructor is already called. So right now your GraphList looks like this in memory:



so when you call addEdge, it accepts V1 and V2. V1 = 0 V2 = 1

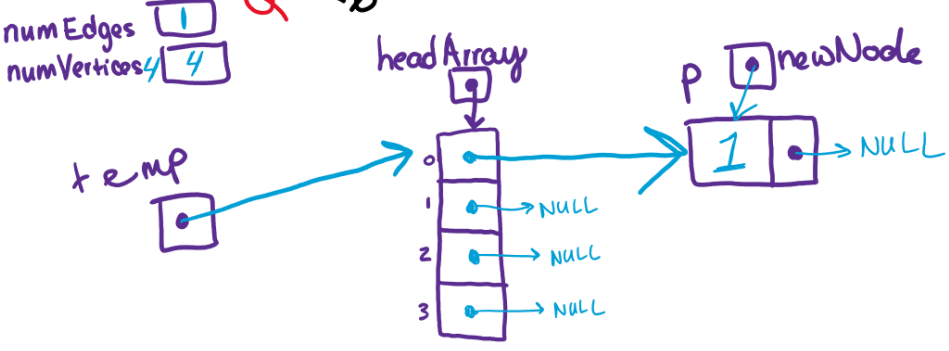
1. create a new ListNode
2. set value to V2
3. set next to NULL
4. increment numEdges



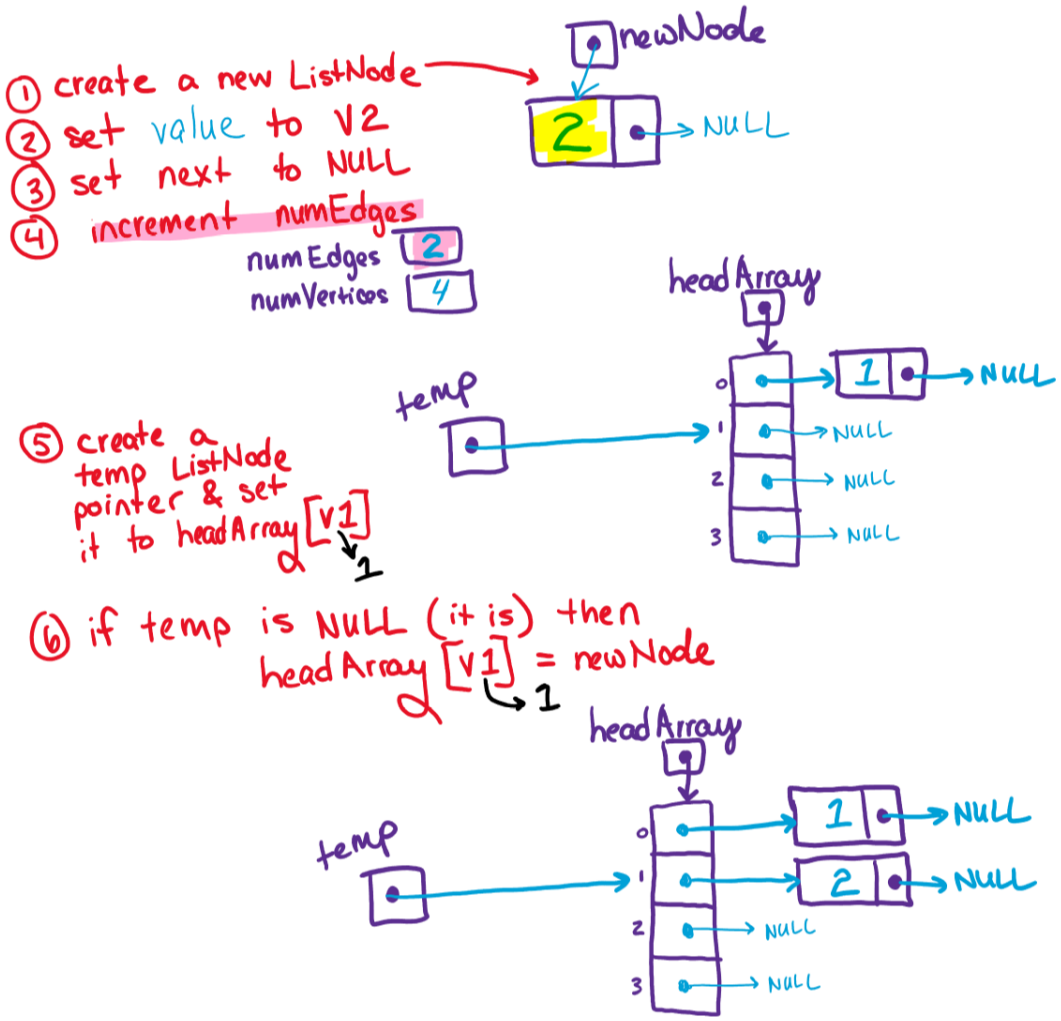


5. create a temp ListNode pointer & set it to headArray[V1]

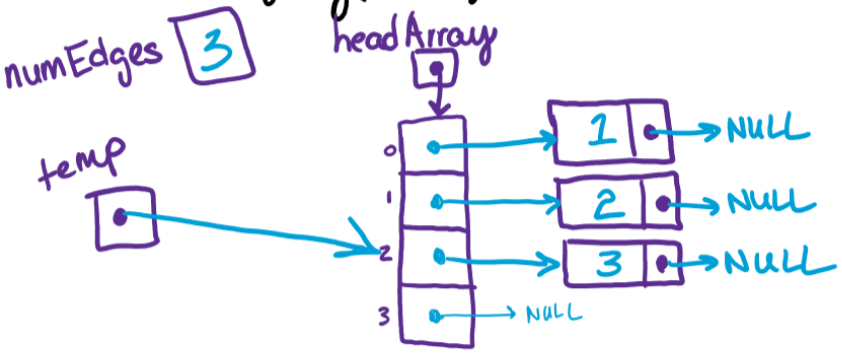
6. if temp is NULL (it is) then headArray[V1] = newNode



Now, add next edge read from file V1 = 1 V2 = 2

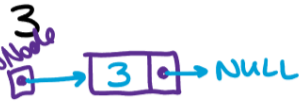


Now add edge 2,3 going through the same steps

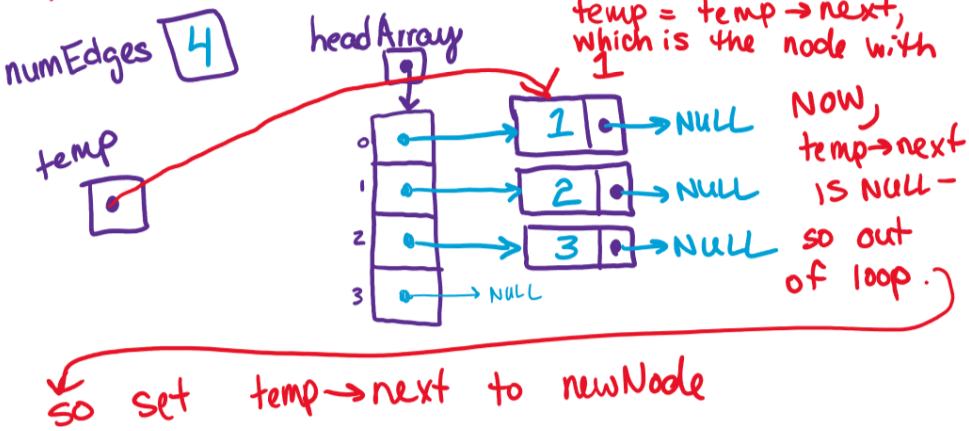


Now add last edge, which is 0, 3

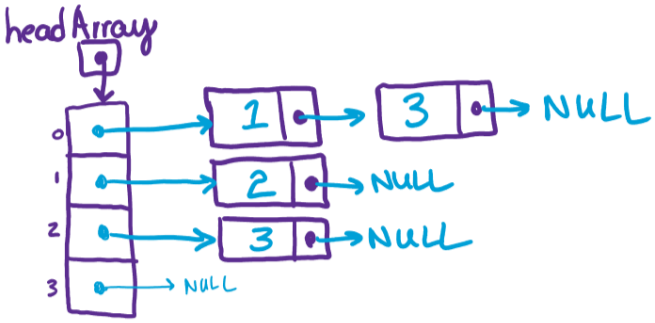
1. create new ListNode & set value = v2 & next is NULL.



2. increment numEdges
3. set temp ListNode to headArray[v1]
4. temp is NOT NULL. — so while temp→next != NULL then temp = temp→next, which is the node with 1



so set temp→next to newNode



DONE!

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