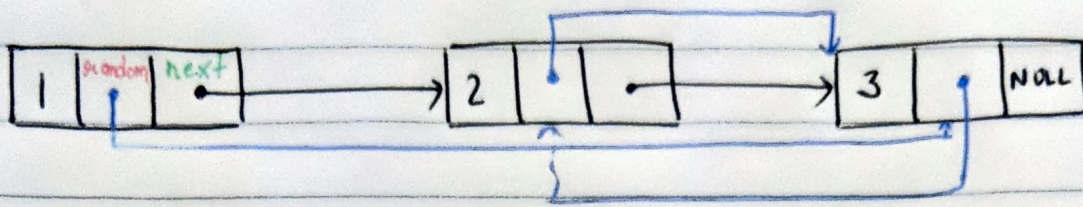


138: Copy List with Random Pointers

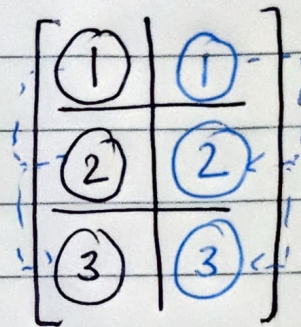


→ Create a new list (copy: DEEPCOPY), such that new list points the newly created copies of "next" and "random"

① Approach Hashmap

→ Store the copy of old with the new.

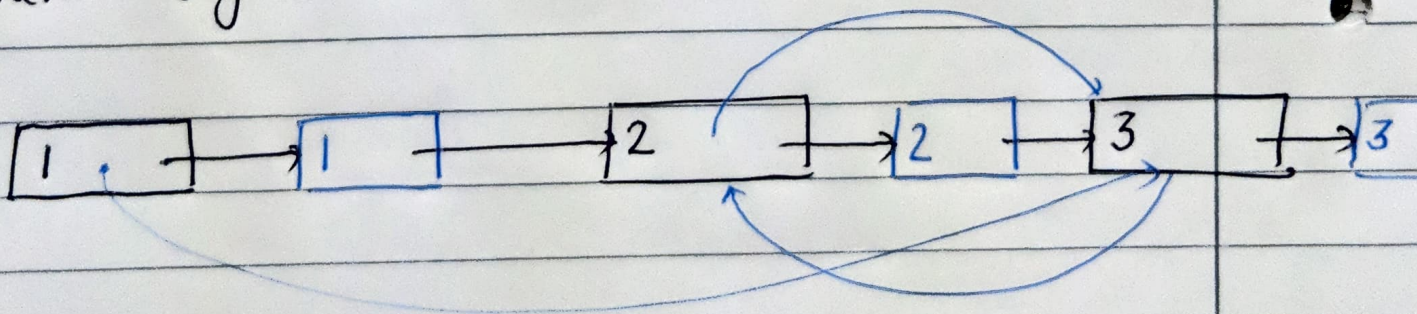
→ Iterate the hashmap and create links.



Space-Complexity :- $O(n)$

② $O(1)$ space approach.

Modify the original ~~list~~ to save the extra space, then revert original back.



→ Copy the new node next to the original node and the copy the pointers points to the copied nodes.