HASHING

Sunday, 10 October 2021 1:45 PM

USINGS MAPS AS HASHTABLE – HASHMAPS

(0) Find intersection of two Linked Lists

Linked List 1 → 1→2→3→4→6

Linked List 2 → 2→4→6→8

Intersection → 2→4→6

Question

→ O(n+m) time, O(n) space complexity.

Traverse the first LL are create a hashmap

Element	Count
1	1
2	1
3	1
4	1
6	1

Now traverse the second LL are delete from hashmap

Element	Count
1	1
2	0
3	1
4	0
6	0

elements which have count =0 forms the intersection

think math

→ maps will work great if no duplicates present but if duplicates present then use sets

push LL element into set, then traverse LL and see if that element is present in set or not.

Mostly such questions (using extra space) is not asked in interview but I have just written it as an example that yes we can do using extra space too!!