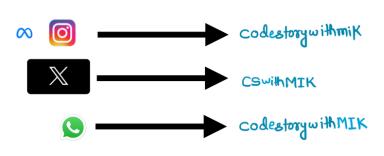
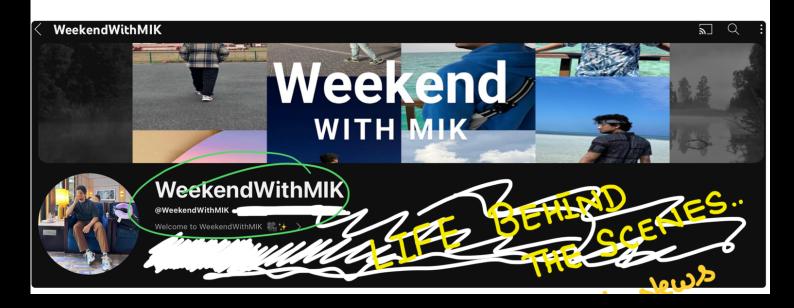
Hash Map/Set

video - (22)









Motivation:

You still have Jew months left this year.

Make the most of it. 2-3 months can

make you an entirely different person

if you stay consistent.

1733. Minimum Number of People to Teach

On a social network consisting of users and some friendships between users, two users

can communicate with each other if they know a common language.

You are given an integer n, an array (languages) and an array (friendships) where:

- There are n languages numbered 1 through n,
- languages[i] is the set of languages the ith user knows, and
- friendships[i] = $[u_i, v_i]$ denotes a friendship between the users u_i and v_i .

You can choose **one** language and teach it to <u>some users</u> so that all friends can communicate with each other. Return the **minimum** number of users you need to teach.

Note that friendships are not transitive, meaning if x is a friend of y and y is a friend of z, this doesn't guarantee that x is a friend of z.

```
Example 1:

U\ U2 \ \( \mathcal{U}2 \)

Input: n = 2, languages = [[1],[2],[1,2]], friendships = [[1,2], [1,3],[2,3]]

Output: 1
```

Explanation: You can either teach user 1 the second language or user 2 the first language. Example 2: VI U2 U3 U4 Input: n = 3 targuages = [$\{2\}$, [1,3], $\{1,2\}$, [3]], friendships = $\{1,4\}$ (1,2] (3,4) (2,3) (1,23) Explanation: Teach the third language to users 1 and 3, yielding two (1,4) -> i **Constraints:** • languages.length == m • 1 <= m <= 500 • 1 <= languages[i].length <= n • [1 <= languages[i][j] <= n • $1 \ll u_i \ll v_i \ll languages.length$ • 1 <= friendships.length <= 500 All tuples (u_i, v_i) are unique languages [i] contains only unique values

Mought Process

$$n = 3$$
 $languages = [(2), (1,3), (1,2), (3)]$

fitiendships =
$$(1.4)$$
, (1.2) , (3.4) , (2.3)]
$$0 = 2 \longrightarrow \{1.3\}$$

$$0 = 3 \longrightarrow \{1.2\}$$

* One language pick such that I have to teach minimum users.

English > user2, user3

max Taykedlangu = English. (2)

3 Users — 2 Users

= 1 user (users).

Sadlisen length () _ most Tayled la.

Story to code

- (1) Find SadVeers (0:,v;)
- 2) Check most known language among scallsons.
- 3 SadUlers.length() mostknownlanguage (ount;