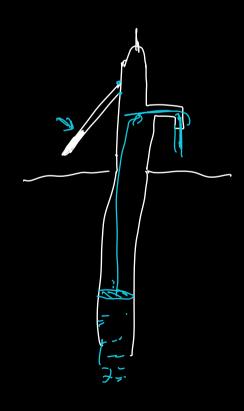
- -> Scala Core values /
- 2.5 hr > How to always stay motivated > Real world problem to understand the former of DS/Algo

Hard Work . V. Sehwag (Hard - eye Co-ordenalin)



$$(1)^{365} \rightarrow 1$$
 $(1.01)^{365} \rightarrow 37.7$
Companiely effect.

How to remain motivated always

Motivation is tempuy.

80% people -> Brush

Motrialin - Action

Actions _____ Motivator

=> Plan you clay

Don't provitize you schedue,
Schedule your privater.

Calanda app

=> Streek 350+ - 7 380+ -]

> Make smaller goals.

weekly goal of sohing problems of 3 classes of that wal

Dr. Kalam

"Don't oak anyone till yor ynself fail to Lind the answer"

→ Fine the ans. (google)

→ Fine the ans. (google)

→ Ask: TAs

Instructe (Slack)

(Pears)

Zew Sum game

(+1)

3 Oflimal

- 1

Data Structure & Algorith / Reuf.

Arroys / Lists J Steps

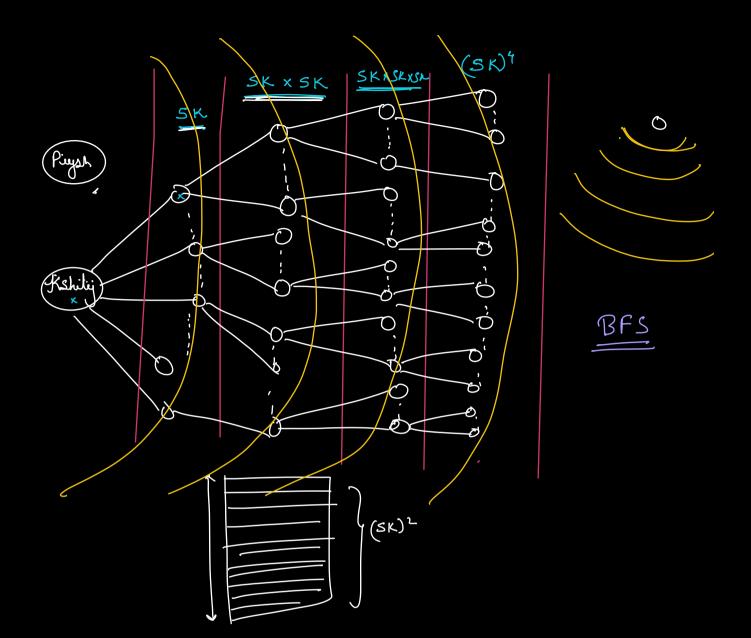
Mops / Diet

Recursin.

Problem Solvey skells V

A coursey

Linked In => cleque of connection (2nd/3nd/4a/--) Any Abhshik) (Kshitiy Ankit Sanjoy Assumption: I profile can have 5000 Gines 2 profiles. Connections at man Check of they have 1st, 2nd, 3rd, 4rd clegree Commerce ? Graph BFS) DFS, MST, Red-Black tu Grakh : Network / connection (Noeles & edgs) Rvaduoy Social Media (42) Typ



Assumption 1 processon ((P4)		 1 Ghz (\$\$) Cclock speed
	Phone Japtop Clashlof	Camera Front camea Display GPU RAM Memoy Clock speed (Hz) L. Measure of no. of Unstruction perferent in

1 G 43 LO8 eteratio un cuele in I see

1 Se.

108 iterations ______ 1 Sec

$$(5K)^3 \text{ lie atim} \longrightarrow \frac{(5K)^3}{10^8} = 1250 \text{ sec}$$

$$\approx 21 \text{ min}$$

(SK)⁹ iteration
$$\longrightarrow (SK)^9 = 625 \times 10^9 \text{ see}$$

Howh Set

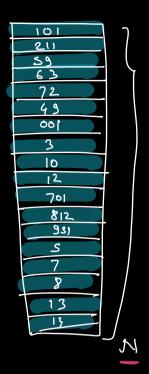
Howh Set

Pure Magie

List (Array)

Check of. 15 is prosent

No of iteration = N



Map/Set

15 1 who

101, 211,5,6 8, 9:51, 812, 14 10, 3, 001, 72 63

Map/Set

TC

How? => 2Hr

Amays

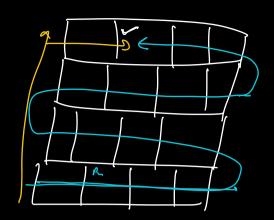
Lined Jisto

Bakard BT

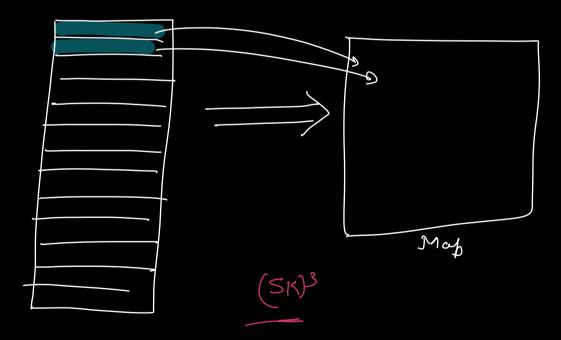
Baland BT

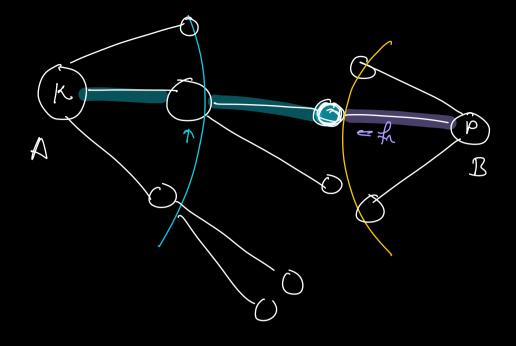
Red / Blan Tru





3rd clegnee Connection
(5K)3





if A& B have a 3rd cligne connecti

Fr (fr (A)) & fr (B)

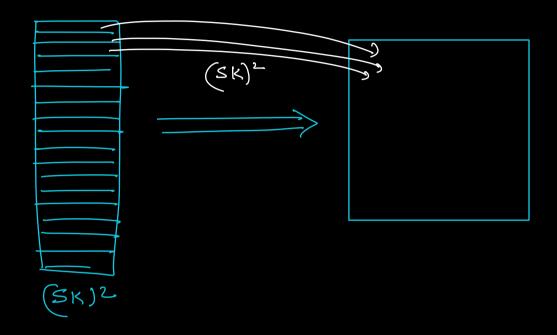
Will have cet best one profite

Common.

 $f_{n(\kappa)}$ $f_{n(\kappa)}$

$$\left| f_n(f_n(A)) \right| \implies (5k)^2 =$$

$$\left| f_n(B) \right| \implies (5k) =$$

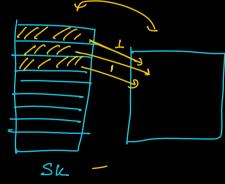


(I) Add (SK)² profile in fr (fr (A)) to a hashmely.

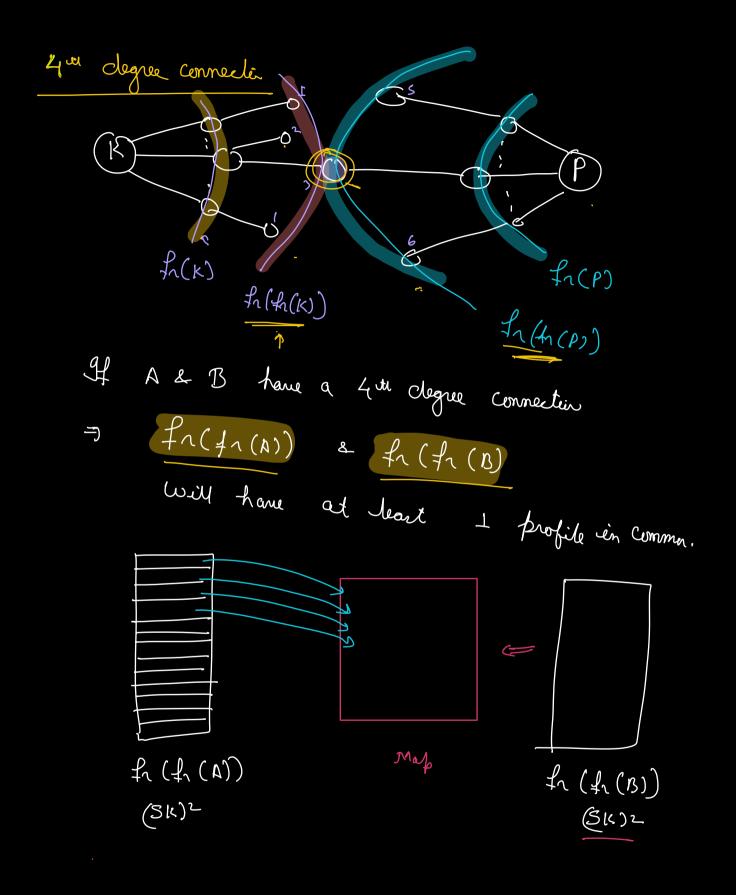
=) (SK)² etirals

2 Check for entersection by wo h (fr (A)) & fr (B)

=) SK elevel



iteration = $(5K)^2 + (5K) \approx (5K)^2 \Rightarrow .25 sec$



- 1) Add one of the list to a map
- (2) Check for intersection of fr(fr(A)) a fr(fr(B))

 (Map)
 - =) (SK)2 uterate
 - # Total ilerate = (SK)2 + (SK)2
 - = 2 x (SK)² D. 5 see
- $\stackrel{1st}{=} \rightarrow 2^{nd} \rightarrow 3^{nd} \rightarrow 4^{nd}$

