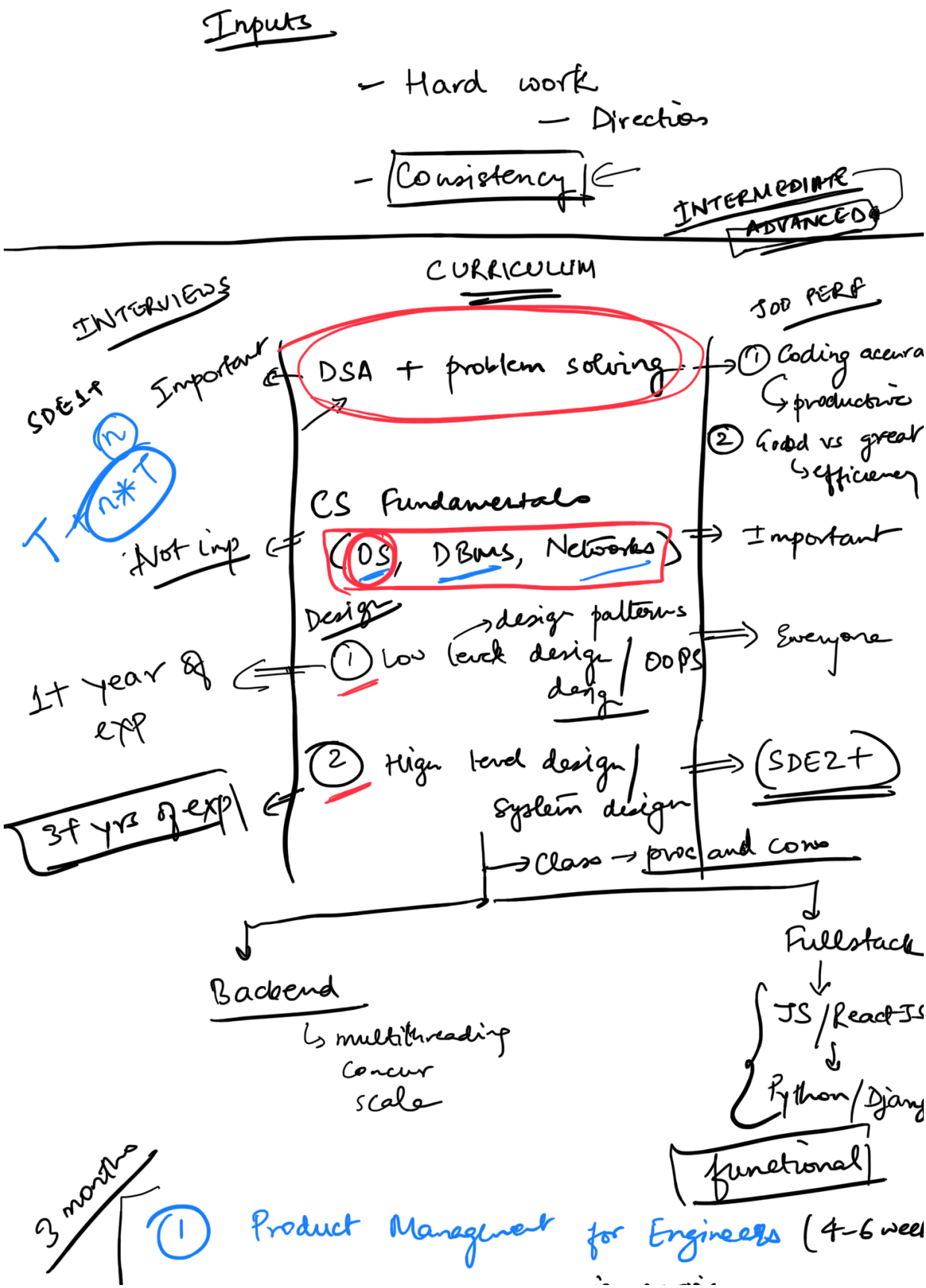
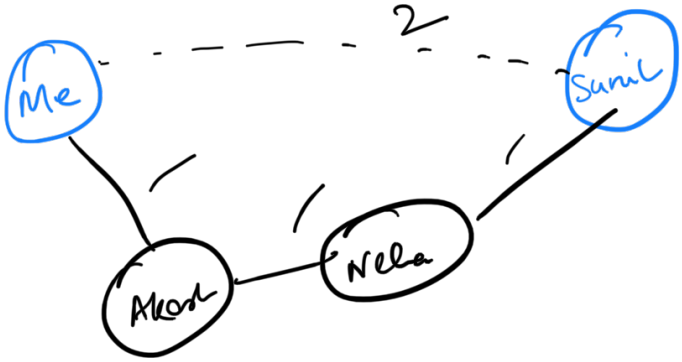
CLASS #1 - DARE TO DREAM



② Advance HLD → microservices
↳ Concurrency
↳ Dockerisation

③ Advance DSA

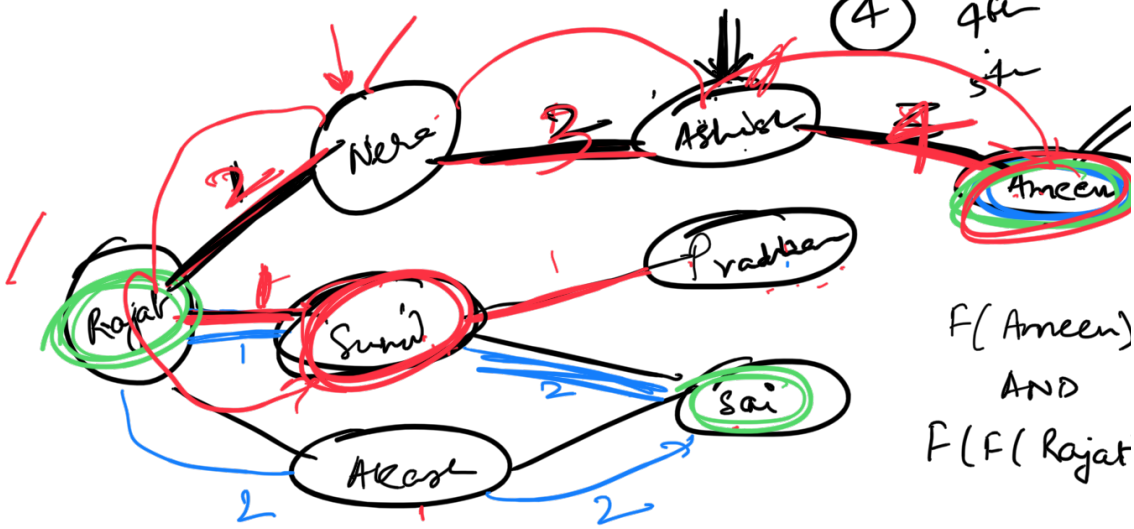


① 1st degree
↳ direct
frien

② 2nd degree
fof

③ 3rd degre

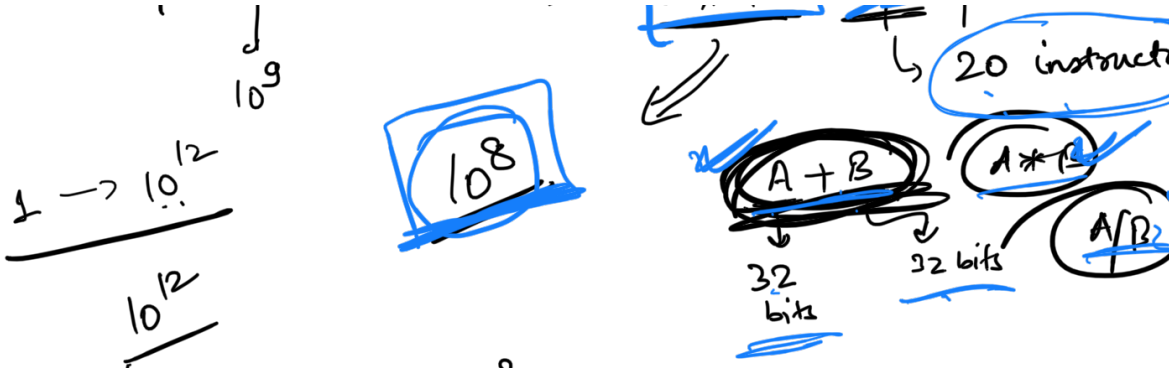
④ 4th
5th



F(Ameen)
AND
F(F(Rajat

3 → 1 1st, 2, 3, 4, >4 ← disconnected

2 GHz → $2 * 10^9$ instructions per second



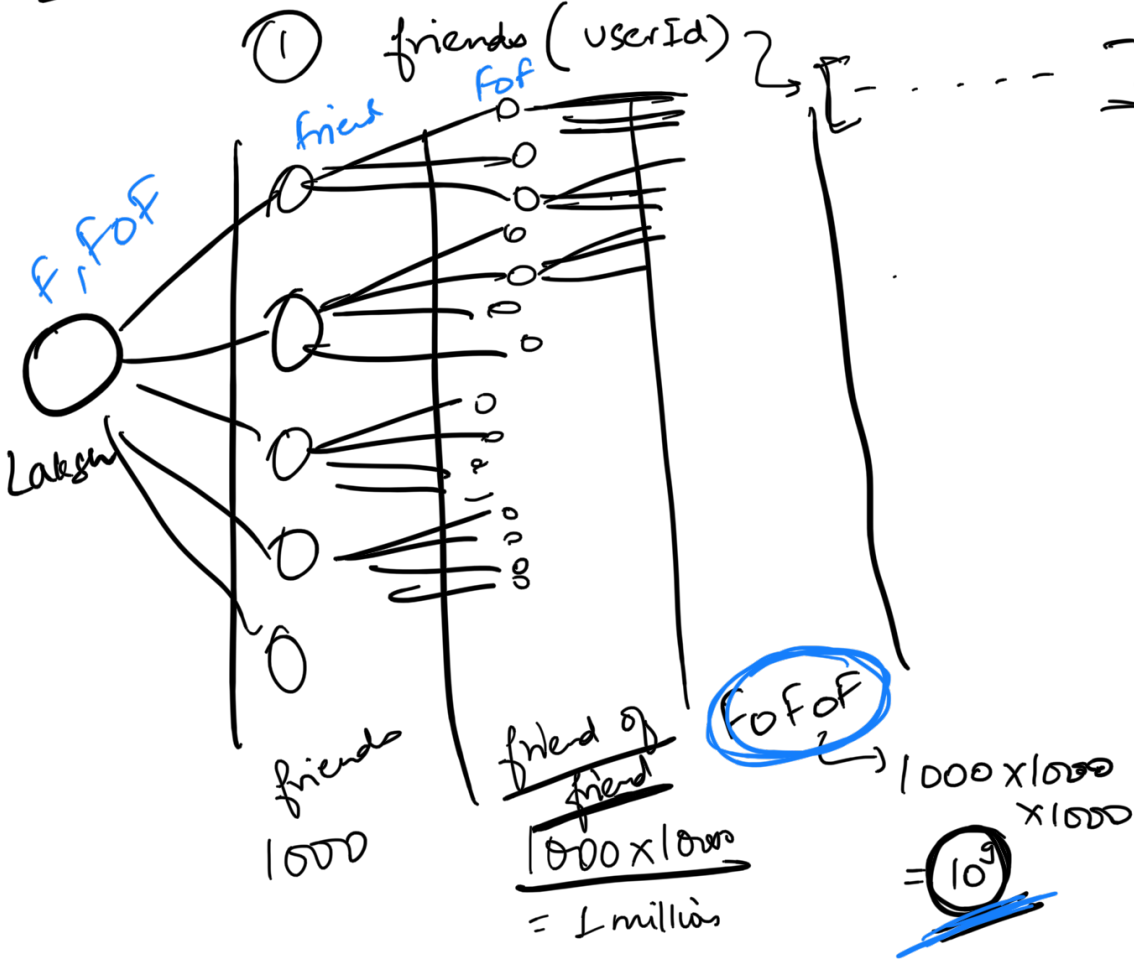
$10^8 \rightarrow$ 1 seco

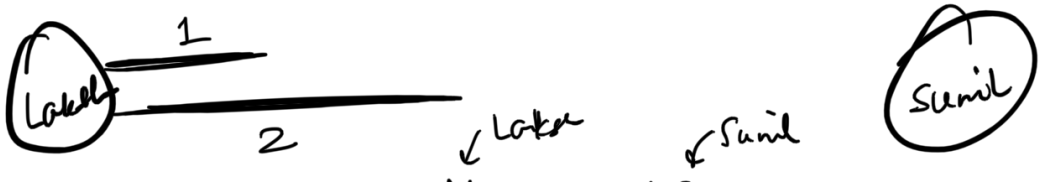
$10^{12} \rightarrow \frac{10^{12}}{10^8}$ seconds = 10,000 sec

1, 2, 3, 4, >4

Lakshman

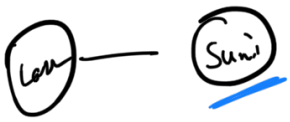
Sunil





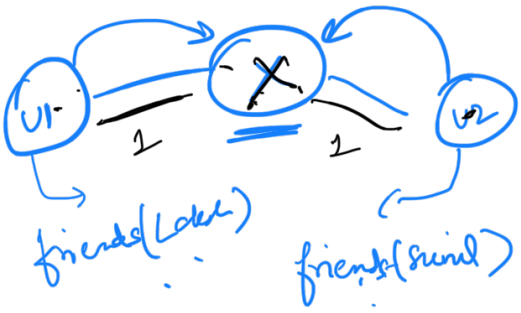
U1 U2

Case 1: deg of sep = 1



if U2 in friends(U1):
return 1 ✗

Case 2: deg of sep = 2



if intersect(f(U1), f(U2))
return 2 ✗

Case 3: deg of sep = 3

if intersect(F(F(U1)), F(U2
return 3 ✗

Case 4: deg of sep = 4

if intersect(F(F(U1)), F(F(U2)))
return 4 ✗

return >4

16^6 10^6

True/false

intersect(L1, L2):

① store L2 in hashmap

for ele in L1:
if L2.contains(ele):

binary sea

N^2

(2) SQRT LL

for ele in LL:

UserId	FirstNa	LastN	City	Co
10	Ajay	Singh	—	—

⇒ INDEX (FirstName, lastnam

(1) SELECT * FROM TABLE

WHERE fname = "Ajay"

(2) SELE-

WHERE lnam = "singh"

(3) SELE

WHERE fname = "Ajay" AND lnam = "Sin