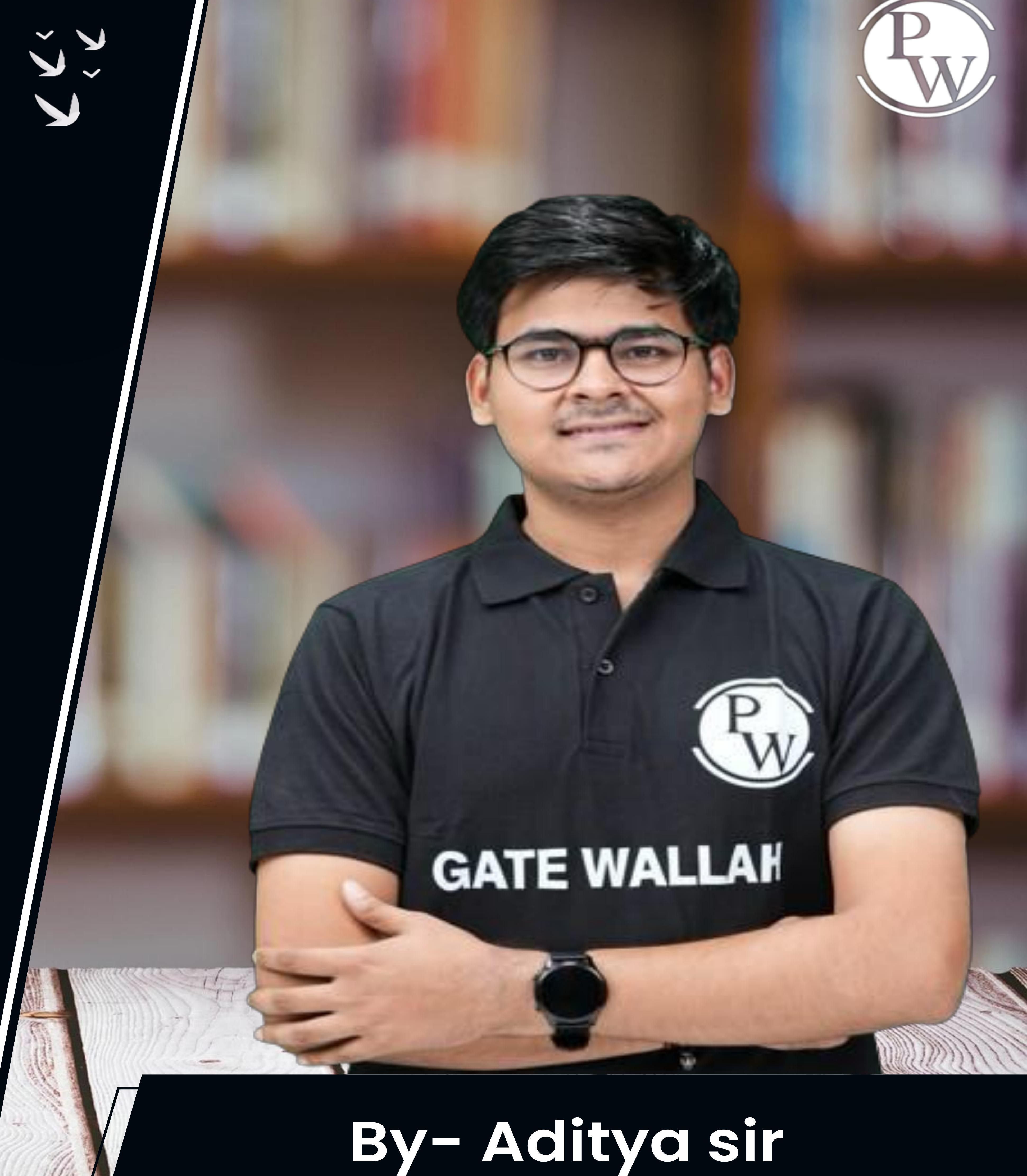
TCS NQT

Programming Problems with implementations





Lecture 15





About Aditya Jain sir

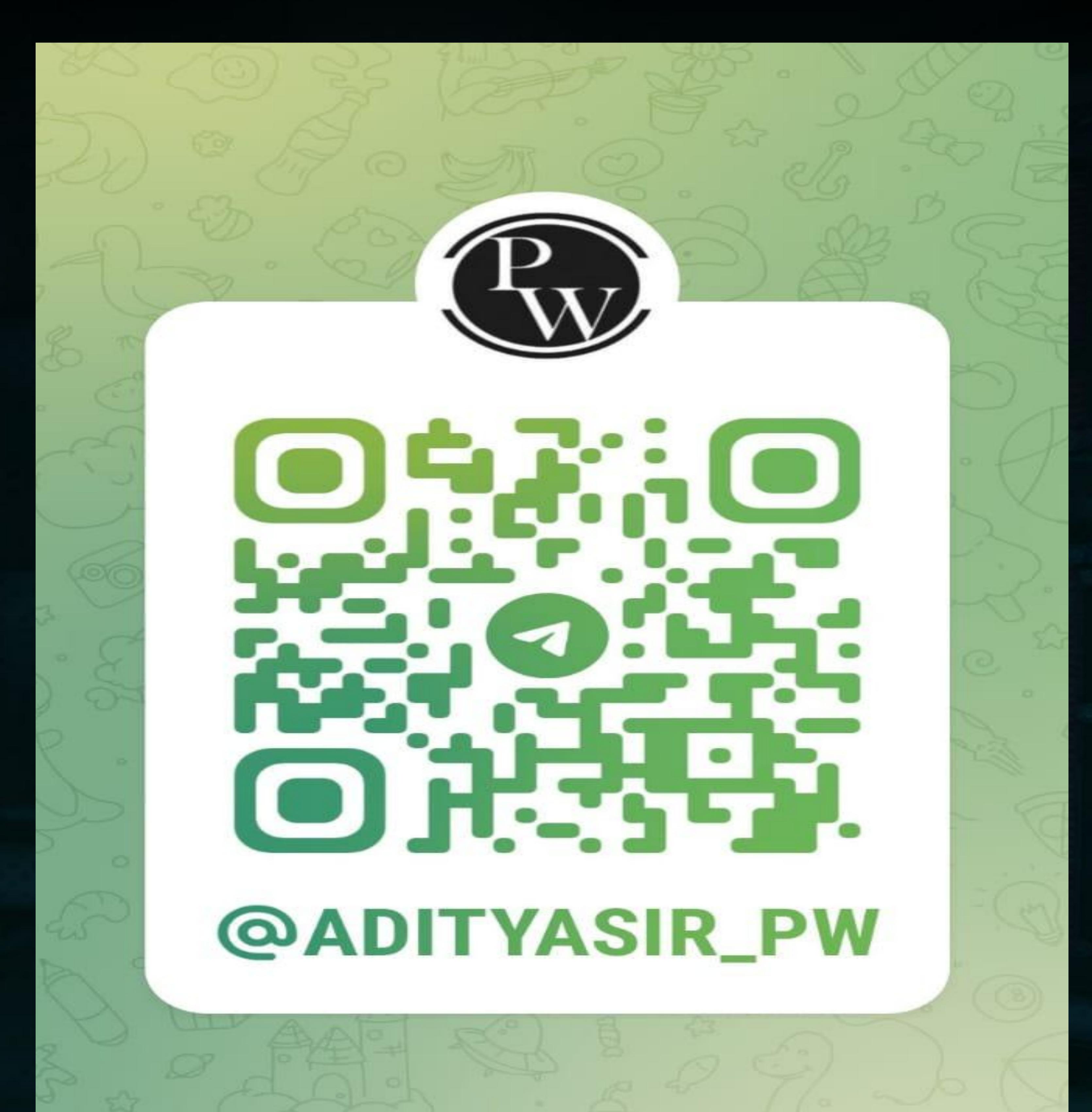


- 1. Appeared for GATE during BTech and secured AIR 60 in GATE in very first attempt City topper
- 2. Represented college as the first Google DSC Ambassador.
- 3. The only student from the batch to secure an internship at Amazon. (9+ CGPA)
- 4. Had offer from IIT Bombay and IISc Bangalore to join the Masters program
- 5. Joined IIT Bombay for my 2 year Masters program, specialization in Data Science
- 6. Published multiple research papers in well known conferences along with the team
- 7. Received the prestigious excellence in Research award from IIT Bombay for my Masters thesis
- 8. Completed my Masters with an overall GPA of 9.36/10
- 9. Joined Dream11 as a Data Scientist

- 10. Have mentored working professions in field of Data Science and Analytics
- 11. Have been mentoring GATE aspirants to secure a great rank in limited time
- 12. Have got around 27.5K followers on Linkedin where I share my insights and guide students and professionals.



Adifya Jain Sir



Telegram Link for Aditya Jain sir: https://t.me/AdityaSir PW

Profits = [3,2,1]

weights = [1,5,4]

cupacify: 4

Copulety tirst (Knap(i,M) = Knap(i-1,M), Wi>M Know (i-), m) wis m Knaplim)= max Knan (:-), M- Wi) + Pi in Uncl

Enb seque "ABCD" Subsequece: Substring: Contiguous part

MABCDA Lusewel not le contiguous La Bud sulation order followed. NABCD

Connon Supseauces : 'A"

Lcs(ij) = 1 + Lcs(i-1,j-1) if xi=yi/ LCS(i-1,j) LCS(ijj)= max (LCS(ij-i))) yit yi

Ban Condition: My Service of the ser $\frac{1}{1} \left(\sum_{i=0}^{\infty} 0 \right) = 0$ referen 0

Tabulation: Bottom - up approach.

X= " " -= m

(n+1, m+1) 0 0 0 0 0 0 0 1-1 1-1 0 A mittalization

Approach 2: Top - Down Di if (n=0 4 refun if (mm[n][m] ration mm (nJ[m]

if (SI[n-1] = = S2 [m-1]) 1 return men [n][m] = 1+ L(S(s1,52) n-1,m-1, mm LLS (S1,52,n-1,m,mm) return mmsnJsmJ = max ccs (s1,52,n,m-1,mm)

Aproach3;

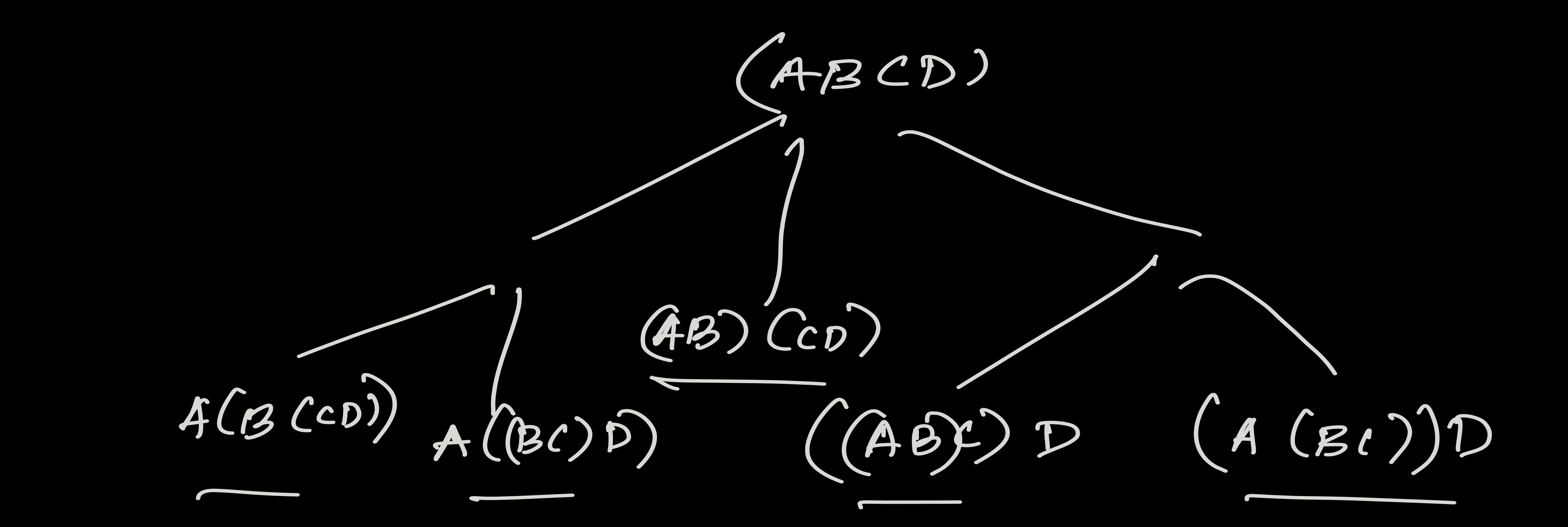
most ches Layoual +

 $\int_{0}^{\infty} \int_{0}^{\infty} \int_{0$

if (S) [n·i] Apij = 1+ dp(i-1) (j-1) dpij= manx (dp(i-1)(j) 2dp(i)(j)) Auten Ap (n) [m]

Dynamic Hogramming Sum of Subset Tout false Sum = 71 2 / M C M Le Matrix Chain Multiplication

ABCD1 min scalar no. of Swan mul= (nxmxp)



Thennew 20015 1004us POST meson on a plan ust S 15 le churs i) Logica 2) APHHeade Day (184-Verbal

37 HR/Behavioral Rounds

4) Brepare Resume

ALL THE BEST //

Aditya Journ



THANK - YOU