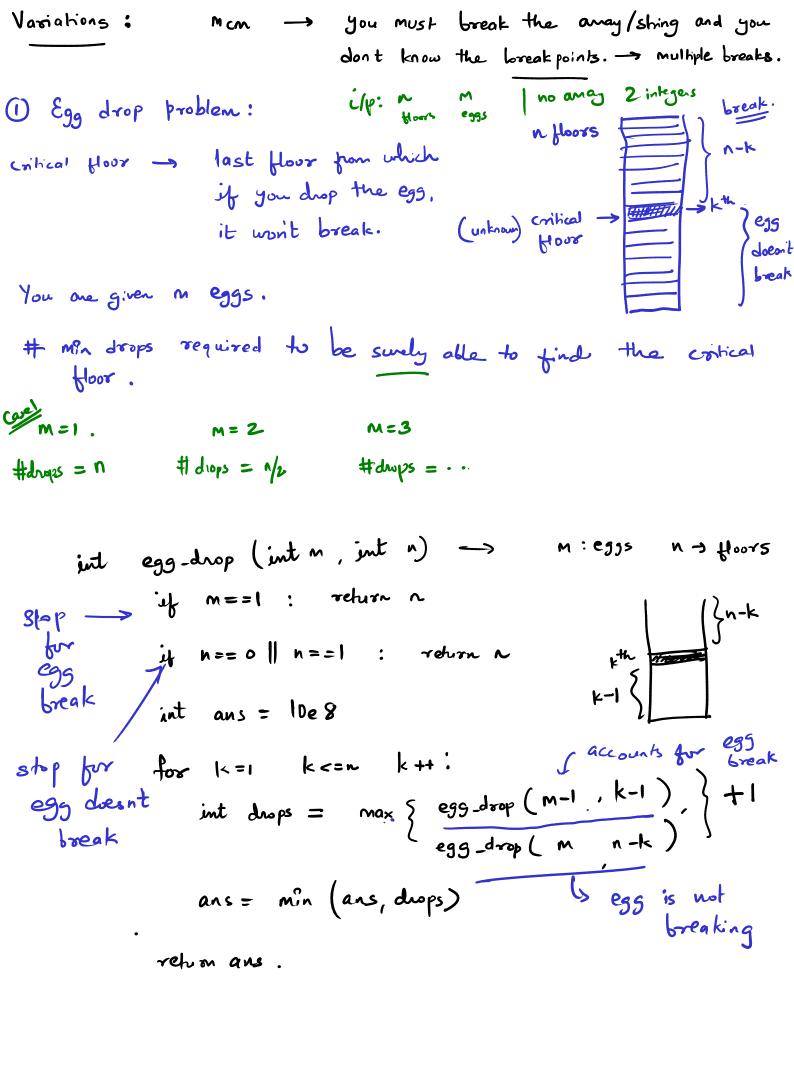
Recap: Matrix Chain Multiplication ABCD # by changing the 2 matrices that OR (A(BC))D ((AB).C).D are multiplied first, # multiplications required to find same final matrix -> min cost maker multiplication. axb bxc -> a.b.c 2 3 1 2 4 3 6 dements | n = 6 2x3 3x1 1x2 2x4 4x3 5 matrices. 2×3 7 2×4 4×3 2×3 3×1 1×2 mcm(an,i,j) 2 x 4 x 3 2.3.1 + 2.1.2 10 < mcm (am, i, k) + single mahi× → costo $24 \leftarrow mcm(am, K+1, j) +$ Code: int mcn(an, i, j): au [:-1] x an[x] x an[j] if meno [i][j] if (i >= j) : Return 0 int ans = loes men (an, 1, h-1) for int k=i, k<j, k++int cost = mcm(an, i, k) + mcm(an, k+1, j) +an[:,4] x an[k] x an[j] memo [n] [n]={+} ans = min (ust, ans) Meno [i)[) return ans. return men. [][] Memoization -> must be done.



8 = "sagan" -> 5 2 Palindrone Partitioning a single chan is always a palindrome! ans = 5 $\times |y| z |w| w |v$ n-1 partitions. Can you do better? ans = malayalam Q. min no of partitions of a string - each component is a palindrone. Sagar Sagar Sagar Sagar Sagar PP(S, D, N-1) saga r is_palindume (str): orehorns yes if palindone. int palindrone-partition (8, i, j): T.C.if is_palindrone (s.substring(i,j)): Return 0 if i>=j: return 0 int a = memo[i][k] int ans = Loe8 o(n) O(n) for (int k = i, k < j, k++) int $p_{p}(s,i,k)$: o(n) o(n) o(n) o(n) o(n) o(n)int $cost = p_{p}(s,i,k) + O(n)$ o(n) o(n)ans = min (lost, ans) lost = a+b+1return ans;

3) Word break problem -> Google! list of words = ["i", "am, an, Str= "ipm a data scentist" "data", "science", Q. Con you break this strong such that "scientist", "der", each word is available in the list provided? True shr = "capet" list = ["can"
"capet" Mcm: Why not greedy? bool is_valid (str word): O()
"Wack") list_of_words: set return list. of words. find (word) Carpet is black > n

Attraction

is |

T black |

T which bool word-break (str): int n = str.size() if n==0: return True for int k=1, k=n, k++ Tif is valid (str. substring (0, k+)) and w ord-break (
Str. subshing (k,n-1)) return True relum false meno[n][n) = {-1} memo[k][n-1]!=-1? memo[k][n-1]: word break (stresubshing (k, n-1)) meno[k][n-1] = a ;

Thinking process: test
1 Implement login/signim feature> No. 1 table test "Hello"
1) Datobase where I will put users data. I table id usernane email pers.
2 Write code in by to connect to the DB. Test it by fetching 3 How to define a table models (Fast API) Hello.
4 I want to sun query - toble in db migrations (5) How to put values in db via ORM.
-
6 Con you fetch?
Business logiz - if else.
8 Redirection.
Redirection. ** Word break. 20 lines.
Mcm - Theory - Class.
Solve as many easy & few liner codes.
*CSES Problem set." >>>> leetcode. 100 UN NO BS. To the point During leetwode. AC WA
no BS. To the point During leetwode. AC WA questions of variation.
7. independent.
questions of variation. The variation of variation of variation of variation. The variation of variation of variation of variation of variation. The variation of variation of variation of variation of variation of variation of variation.
How to make variations? Try of to relate with MC

