	log Longest common subsequence.
(10)	De Tal
	Algorithm.
1	11 Ispet: - Grades of 20 students cin the
	format of vector of string.
	11 Outpet: - dongest common subsequere between
n)0=, .	(1) 20 strienegst at migran (2)
	funtion : Il roud borred
	grenation LCS (String x, String x)
	(m & dugth (a)
	m < lingth (Y)
	TOPENS HOLDON LOST
	11 Create a 2D array dp og sige (m+1)
but we fare	× (n * 1) de, centralize de 0
20.0	
e u. o	
2 N.O	
8,10,0	
	5) med Paper comply) man celete jeselpted.
	if sc[i-i] = x [j-i]
	dp 2 i 7 [ i ] ←   dp [ i - () [ j - 1) + 1
	else:
	dp[i][j] ∈ max(dp[i-i][j], dp[i][j-
8	11 Using bracktrocking to find find LCS string
	ie m, jen

while iso and jso do if x [i-1]== x [j-1] do at handles ( X [i-1] +1 cs Hoo 12 else if op [i-1][j] > op[i][j-1] [a] Endelse aux = aproposition oretien LESOB (0 <- 1-12) 100 (1-10-0-3) rol ob Time Complainty Function LST soute un + [][x] O (n2) [] appor de matrie formation. (n2) o (n2) o for backtrocking answer string. Total time Complexity Time tomplecity = 0 (n2) + o(n2) = 0 [1-1] [= ] 2 × O (n+) = 0 = (n2) LES for 20 string = 20 x function LES = 20 x 2 x 0 (m n2)  $\geq 40 \times 0 (n^2)$ =  $O(n^2)$ 

vidyaleknanua	
DATE	
Matrice Chair Hultiplication.	
the we chan tuliplication.	
ient matrixMutiplication ( over)	
// infut: a do array	
11 outhert: - a cert as a cost.	
// Objective: - To dind the minimum cost of coo of matrix Muliplication.	or
matrix Outiblication.	
n = av. sège	
interest of the second of the	304
vector < vector < int >> dp (n, vector = n, o to	, ,
Jor 7 den ← 2 ← > n do	
for i≥o -> n-len do	
j=i+den	
- dplizsiz = INT_MIN	
Jon K€i+1 → j do	*×
cost = de li][k] + de [k][j] + avrli].	
de lisse jan (de lisses)	
ablilli min (abrilli) con	
return dp[0][n-1]	

