hongest Increasing subsequence find the length of 1) 9 11 13 6 8 20 10 12 7 9 11 11 13 Find all possible subsequences $\approx 0(2^n)$ go to every element -> find LIS endig 3 12 7 2 9 11 20 11 13 6

x y z | fy 9, what LIS

rey 3, endig at you?

and? max 2+1 6

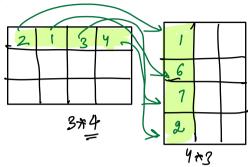
flistid = longest increasy subsequence endig at û je

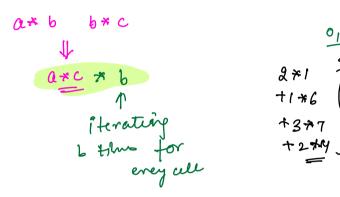
Russian doll envelops N deff envelopes. he gut and width. Find max count of A B
envelope that can hA < hB & A can fil
be put a sijle envelope. WA < WB & uto B 4 →1 6 3 1 →3 5 sort by height

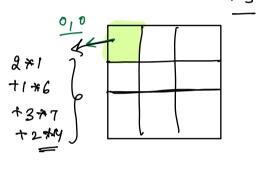
M. M. am.

3 *7 7 * 4 3 * 4

3 * 9 8 * 9 Mut X







$$(H_1 M_2) + M_3$$
 $M_1 M_2 M_3$
 $3 + 5 + 4 + 4$
 $3 + 7 + 4$
 $3 + 7 + 4$
 $3 + 7 + 4$

$$M_{1} * (M_{2} M_{2})$$
 $M_{1} (M_{2} M_{3})$
 $3 * 5 * 7$
 $3 * 5 * 7$
 $3 * 5 * 7$
 $= 2 \times 5$

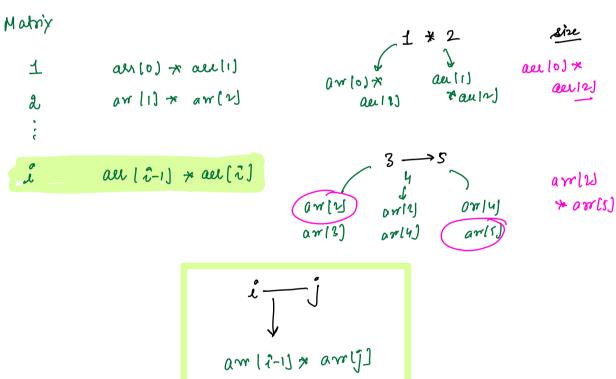
d Find min cost to multiply a chair of matures of

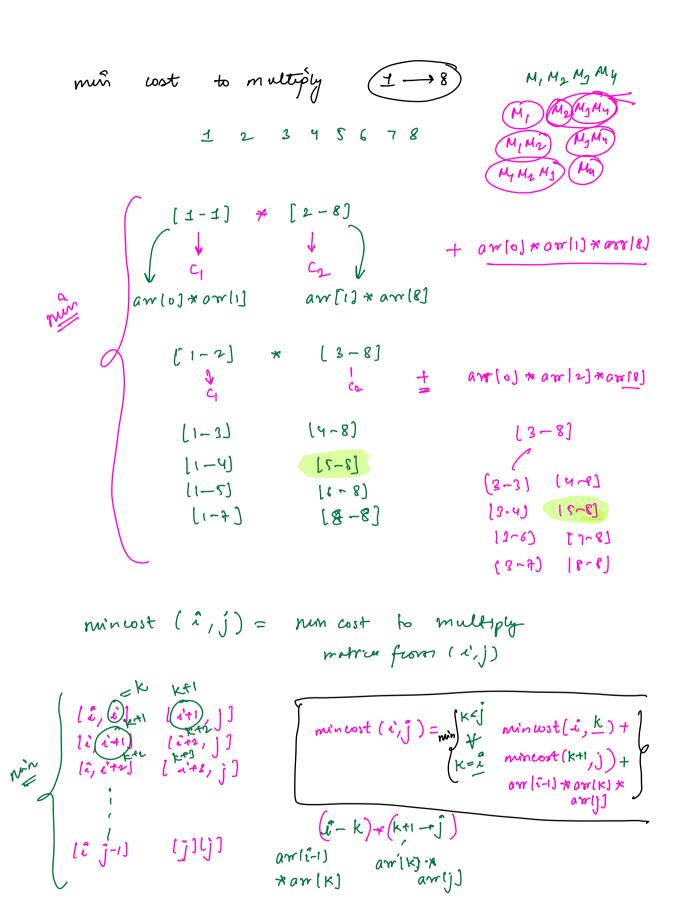
Array of N positive will

N=4

N-1 matures

N-1 matures







mnost (ent arl, int i) =>

of $(i^2 = j)$ etuen 0;

if (dpli) (j] =-1) etum apli) (j);

dplistije min (dplistij), mincost (i, k) + mincost (K+1,j) +

am(i-1) * am(k) * am[]

rutum aplitalija;

