

# matrix chain multiplication (mcm)

① mcm

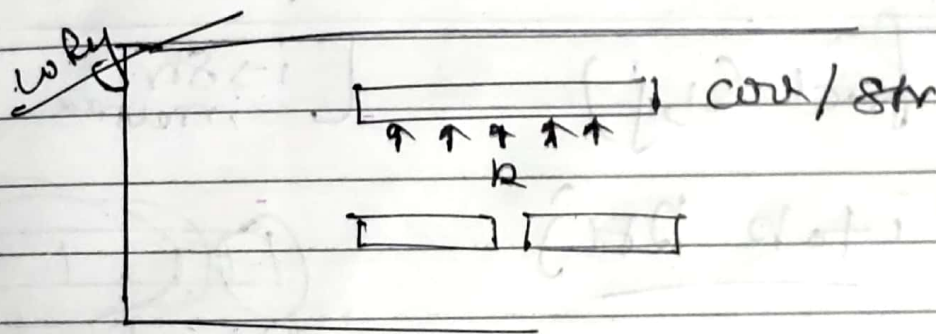
② Printing mcm

③ evaluating exp to true / boolean parenthesis  
min/max value of exp

④ palindrome partitioning minimum

⑤ scrambled string

⑥ egg dropping problem.



syntax

$\text{solve}(i, j)$

if  $(i > j)$   
return 0

Base cond<sup>n</sup>

for  $(k = i; k \leq j; k++)$

temp =  $\text{solve}(i, k) + \text{solve}(k+1, j)$

$\text{solve}(i, j) = \min(\text{temp})$

cens = fun (kennans, ans)

y

return ans

}

MCM

↓ ↓ ↓  
ABCD

How to find  $G(i, j, R)$ ?

min  
max

(A)  
(ABC)

BCD  
D

$1 \rightarrow n-2$

R for range  $(1, n-1)$

Solve  $(1, R)$   
Solve  $(R+1, j)$