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1) Graded Problems 2

1-)

k types : Isk=n

OE WEW

OPT (kiw) = max { OPT (K-1, w), OPT (W-WE) + V x i }

do not include include item of typek item of typek

Boros cases

OPT ((k w) = OPT (k-1, w) , if w k> w

=> Complexity = O(nw)

2-)

Si, Six ... ox be the Sub-string in S.

es o eken

OPTCK)= max (O, Opt(i))
O<i<ks sink is in diet.

Base cases: OR(F) OPT(0)=-1

=> Complexity- (nm)

The traverse the given string

To find all words in diet.

3) let balloons be & l to 92

l k ... 92

OPT (l, x)= max & OPT (l, K-1) + OPT (K+1, 2r) L = K = 2r + num [x] x num [k] x num [x]

0 = KOEn

Base case: OPT(0)=0

4.)

String Sub-string