Opts sis. 12/4/2020

KNapsack

n boxes, Each with

and Who

value.

to ful a subset I

(acal:

1.5% W. & W

subsets of boxes. Then het List = S, S', S" ... be a list of dormate relati: List + & Boxe3 to denote The fallows. S+ 5Boxt, S+ 5Boxt, S"+5Boxt, ... LS, has less weight but More value.

(Milo is almost Smite-force) AG: (Dynamil Mogranig). Return The Max value sitest in List. For each 15ksu if h > 1, 14 k=1 elimate all subsets with weight > Wi Climate all "dormated" subsets in List Listy:= S&, 280x3. List := List - Followed by Listy-1 + 880x3

Kung hime: where \(= \sum_{i=1}^{n} \subsets (afect elimitary process)

why? Ofter elimitary process,

where \(\frac{1}{2} \) where \(\ each round, we create List which has you have 22 rounds at most min (W, V) number of (1) (2. min (1, m)) they can't have the same total value. Can't hour the Same bo SI and Sa, in The list List (5,72 of what & value of This time is explanated. · (paper).

cot solution 8*. Obserati: \S vi' = \S vi' = \S vi' Then, I run The provious dynamic programy olg a subset of boxes who total weight value Will result in a solutie is which is apprex back sgows back optimal wint the apport . Values V. vedue 5

Rouding Eac much larger on Values: in last page now n

This is the way you get In Juny The green E) We need only to set TroR (mt ·Max v;)-Lenor corrected. at most fl erroll. each box creates on 22 and 2. This is called full poly-approx Kumis time is (usig vi). Error S.V. or ()(n. min(N, V)) = O(n.V) 11 Mil.

easies: 1. I voen comprehe of bis Certan Schneshi · bad: Can't Martan Han lower Sewinday on 2 K layer Southy or 20 tems over (61 of k-615) ind nulse codif

thank distance is synctric? exche of two bit-array: asymetric? Senithe invarant on pentalic

T; X : 2) has new publica: don't will 2-base use travelety n-bu of molecute mon 1050

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