LinXi Li 16-1.5 15-1-4 GREP's Activity selection and Hier (S. d) N= sileryth, A= joint Chacai who fine and in the sequence surred by finishing time Fort CAN a, V) - surt the soquence a by value for 6=0 M=2 to n: HSIM] Zfik]: A Diani CREEDY-Remusike - activity-selector (modified) (s, t, k, n) m=k+1 to=0 V= Sort[16] = som Value from larger to while men and SEMJefits and HEAMS] Vot - V- 5m] m-m+1 7 Men Jewn (Vm) V Recursive-Acivity-selecter (SN,m,n) else return o Sured, we simply go over-the values from larger to smalker, and if there ove compatible. If, we add them together in the array then the output 16. 1 (Inspired by solutions on Capiv) a. We can determine the layers can, where value is less or equal to n. Consider this value as the the recursively some (n-m), do Same thing to value (n-nt) tor 1 < n < 5, C=1. then the solution Consists with Pennies. The for sen <10., C=1. If we minus, then subproblem would be ken-cer 扫描全能王 创建

for 10 En \$ \$25, we simply minus with 10, then the the subPrublem muld be SEN-CE(U, Aste rtatement 2 indicates, the assumption,

for 25En, as before, subtrubben would be IV= N-C =25, as the statement states, the equation holds

b. for i=U-1 k-1. (12 in Alimal solvein used is less than c ter example, supplie the largest (din CTEN, then we solve the subpublin of N-C7 cents for non-greedy solution, the result is $\sum_{i=0}^{j-1} a_i C^i = n \ge C^j$

 $a_{i} = c_{i}$ $a_{i} = c_{i$

It's contradiction, so optimal solution is the best Sdrain

= ((-1) \(\frac{1}{2}\) \(\frac{1}{2}\)

(-{6.5.1) N=15, great algorithm = (7) H < (2) Actually count only needs to equal to 3. = (3) ((())

J. Let CITI denote the minimum ciris we need to make change

ele:

HminfcG-day] Isisk

It depose runs in O(nk) time.