Integer Ka. Knapsach Yroblem MP Hard/ Ekrponensial. Himpunan solvsi:

Them; Hem, item, item, item. {xn, x2, ..., xn3 = Himp solvis Xi e 20,1} F) 0 < Xi < 1 Wilai optimal: i=1

Int. KP. 6. By profit?

Weight?

alensity (R/wi). > Jorang 6 6 by profit - Sort item by profit clercending Hmbil baring ya profit paling his;
relama haparites marih terperauh

Rasasitas. talk terginding politi ifem nya. Total weight < capacitou) tapi folk ada kayi banang Ly bida diamboil (a) 6 by weight. andil y polving ringan
Kapacitas ole. - Sort items by

Es. by density (Profit - SOLF items by density descending Rsendocode. by tochnique. sum + Wi E K. S F 2 N Exis value = value + Pi

Frachonal Unapsicle.

(Tyvannya Zweight = K.

Greedy by donning.

Promoter of Promot

[Wi	r;	Pī/Wi
2 (18)	24	1, 4

Follow 30, 1, 2) Wildingt = 31,5

2

* 2 | fem 2 -> $w_2 = 1s$ $P_2 = 24$. Testidu = 5 $P_3 = 7.5$. Zitem 3 -> $\frac{1}{2}$ $w_3 = 5$ $\frac{1}{2}$ $P_3 = \frac{1}{31.5}$ regidu = 0 Masalah ophimicas F = 2 Pixi s.t. Zxivi < K 0 = Xi =1 Vi=1,-n -> 6. by density. nemben solvi opt.

	Coding Concoding Pecoding Code 101 0011	tels -) hode ; kode -> tels
\	Yaniable - length encoch	ding-
	SAMA. S:00 A:01 M:11	
	00011101 S:0 A:1 M:10	ODDINO SAMA OLOLIO AMA
	,	

Huffman codins.
Karanter 0 b. C d & f Frequency 97% 13% 172 169 96 58
Fixed - leng:
Encodiny 600 001 010 011 100 111
Prinsip HC.
Enuding based on frequency
Greedy: karakter dinrut berdgar
AMABBCMADDE
A: C: E:

Coding tree,

* (Eurahur yg muncul paling sering)

fre q. terbesar => encode dg

menogswahan to de kg pendele

* (crook ter rg Jarang muncul

* prode gg panjan)

Charla b cd e f rrig (c15 13 n 16 9 5 -> 100-13 ← € f +3 +2 95 d 16 45 pc: 52 6t: 17d ef A: 30 IT aprépa: 100.

