hubinorsing Huffman:

Huffman (f):

Eirobs: nuno, xix f[1,..,n] oxnonisme Epolos: Diver unhuonoin ous pre n-400)x

H=\$ (dupà neoryano mas pe ladjus's us nximis)

for i= 1 to m of listing earlying impert (H,i,f[i])

insert (4, w, f (u))

H= [1, x, y) H+ (1, 6)]

H= [1, x, y, y]

H= [1, x, y, y]

O(n log m)

A 1 B 7 2

17.X.

44100 River 20 (= { A, B, C, D} ACAB 51,521-.,57

miro

A ~> 00 B~ 0/ C ~> 10 0 260 megabit

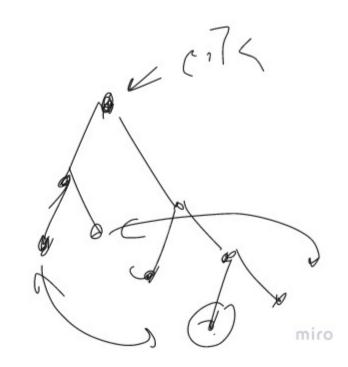
A- 1 20 Em	5 4 %
Ban	2 %
20 En	15%
D 37 Em	29%
1200, vons	
A ~ > 0 1	
5 ~ 1) 5 ~ 00 l	

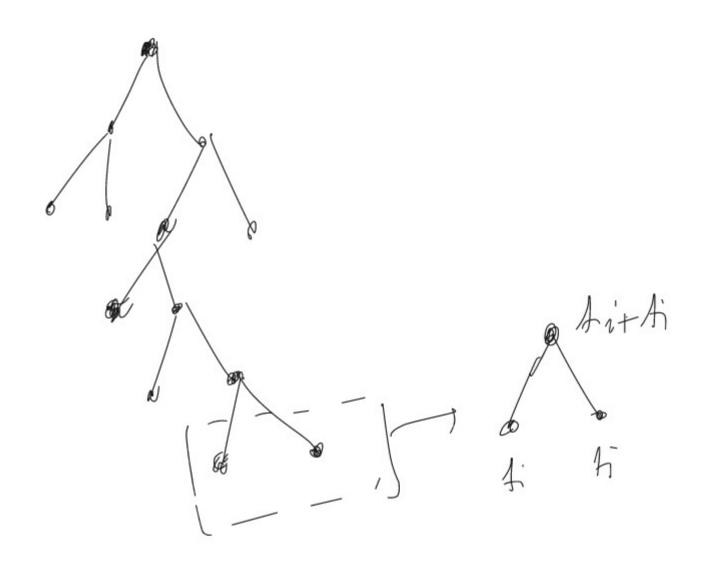
~> 0 1 0 1 0 11 ACAD Ens relas. 2% 15% Words Stirpor!

54.1+2.3+15.3+27.22

hørs! Deor the WXD hirm Dum rem hopped-re Aven Enros Loss m e772.

 $A \rightarrow 1$ $B \rightarrow 2$ $C \rightarrow 3$ $C \rightarrow 9$ 2 3 15





m-45/2 5x4 2m-1 Ex Singo Huffman pu uspueis. Endpups no 1454 Bim: n = 1 fy. , xih m Bripu! Dive. Hultman pr (4+1) - 4Jo) L =2u+1

Turoi Horn;

C. N -- N Cm - 0001 Eirosos: 73 nos Horn 5= {C, -, Cmy (pr u-phalsons) Epolis! Manas V pr. npis 7, f na m (e-prodesim) No luchonoil 200 S of primpe of paron do By Juno roseres o S for i=1 to us VCiz= F ereny C+S if C=Xi (xi phelimin) for every CES VCi3=7, S=5({C} Causis Henr = T while consistent = 7 and change = 7 (m2). change = f it c = \(\overline{\times}_{i_1} \times \cdot \times \overline{\times}_{i_m} \) and \(V \(Li_n) = \cdot = \times \overline{\times}_{i_m} = \tau \times \overline{\times}_{i_m} = \times \overline{\t for every cxs Cansisters = f if C= Kin A. Axim-s X's and V Cint = 7 and V Lig]=f VGJ=7 change = T 5=5-163

is Consistent = f verm 'm +menoraistess's cen som v.

x jours O(m²).

neozanami) przabsmi) (X1 = 0 Govos /p. v. m. ho); vy) X1, X2, ... CroxXXX X1, X1, --(x = 0 6gos sine un no-7/2) X1, X2, ~ (X, VXZ) 1 X3 - X5 $\Lambda, V, \rightarrow, \gamma$

7 Inos Hom: oers: _____ Xi phalmi) $X_{i_1} \wedge \cdots \wedge X_{i_m} \longrightarrow X'_{i_m}$ $\overline{X'_{i_1}} \vee \cdots \vee \overline{X'_{i_m}}$ UP. TIM Hom Nym Jenn 1.x. S= (X4 1 X2 1 X3 - D X1) / (X, 1X3 - D X4) / (X, 1X3 - D X4) / (X, 1X3 - D X4) / Λ (X, Λ XZ \rightarrow X4) Λ ($\overline{X}_{0} \cup \overline{X}_{1} \cup \overline{X}_{3}$) Λ (\overline{X}_{3}) X_1 X_2 X_3 X_9 V=[77F7] V=[f f f] V=[77 F 7] V=[T F F]

7 F F]

v = [7

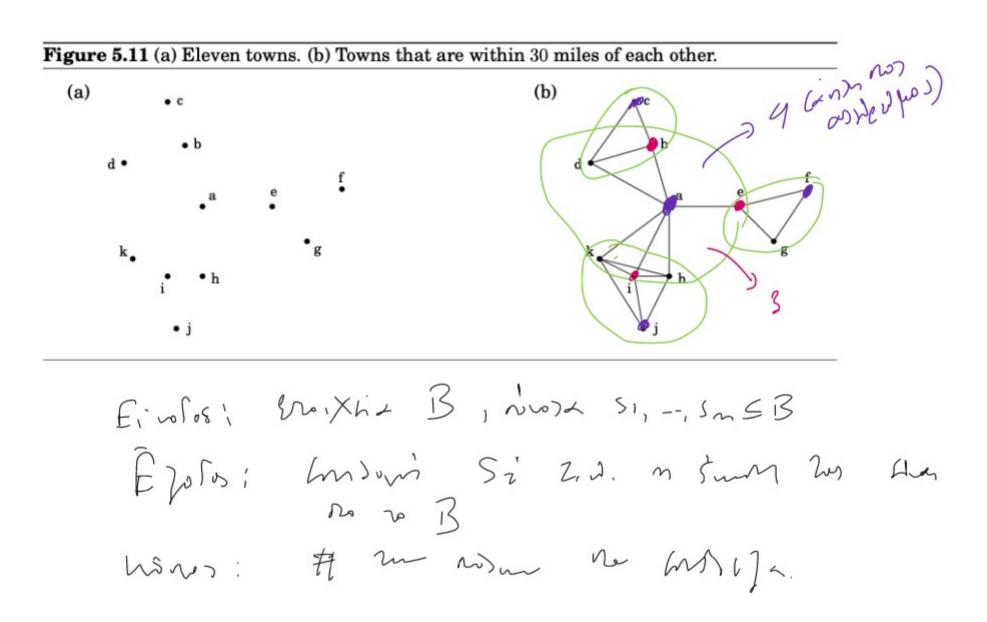
miro

 $(P \subseteq NP)$ P = NP No 6) inger reolonique pl grand Un 2m pos / ho no lis Apos confligg ca

NI-Wyrbr.

Tarres Per de Xix (When)

Kissoth Sussou



OPT = Ossum Wines H som zu ånsme assopilpre Eng: Roym OVT m 20 mils milm ME/OP7 M+= and me roixie prie and +- Enaussity $M_{4+1} \leq M_{t} - \frac{M_{t}}{0PT} = M_{t} \left(1 - \frac{1}{0PT}\right) \left(1 - X\right) \leq C$ $M_{+} \leq M_{o} \left(1 - \frac{1}{oP_{7}}\right)^{t} < M_{o} \cdot e^{-\frac{t}{oP_{7}}} - \frac{t}{oP_{7}}$ Tont vina o New t= 017. logy Les o inmos or signifus De consitur of 7. log m

かいかる.