

Aux3 (B) Trepspinge in Akiques Perspentent nos Da merspenger un Bilum dem nom no "Endow Keadows".

Youthigh: Opipe fina ferablish X; E { 01} par & anication a; CA

> Opipyle in orniques (arouhyukis):

> Opjulie rows reproportion:

Fra & uno-ore (mondado) Bi CB \(\times \t

min{x, + 3x2 + 2x3 + 4x2} Yaxnordic 20 Biliano Estado Restans

x, + x2 ≥ 1

x, + x3 ≥ 1

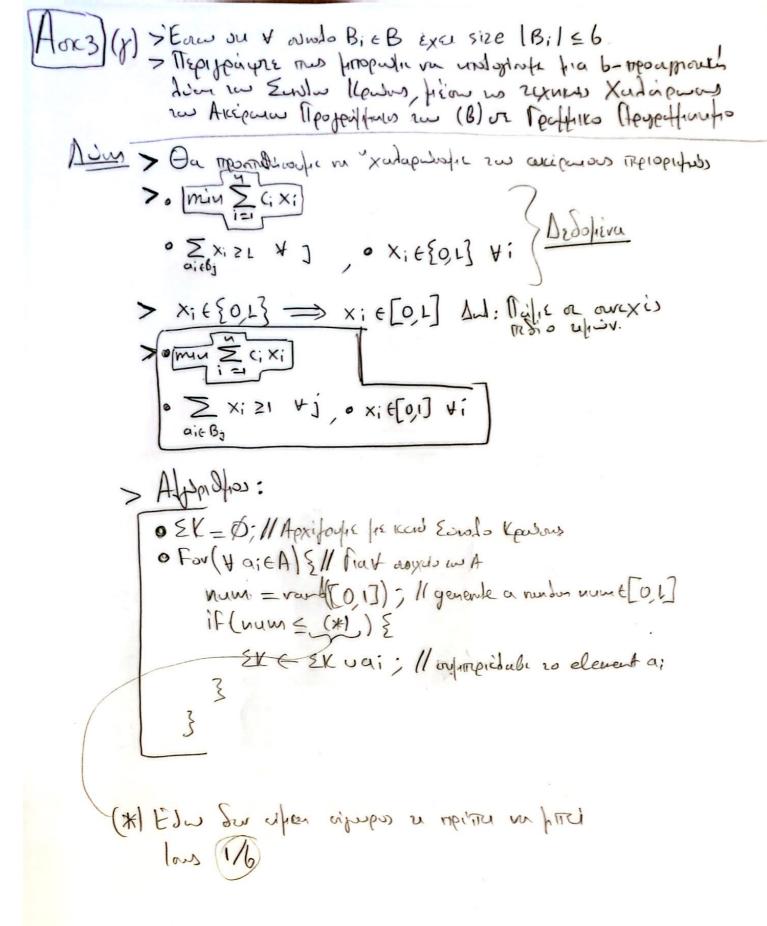
x, x, x, x, x, x, t {0,1}

{a, a, a, r}

{a, a, a, r}

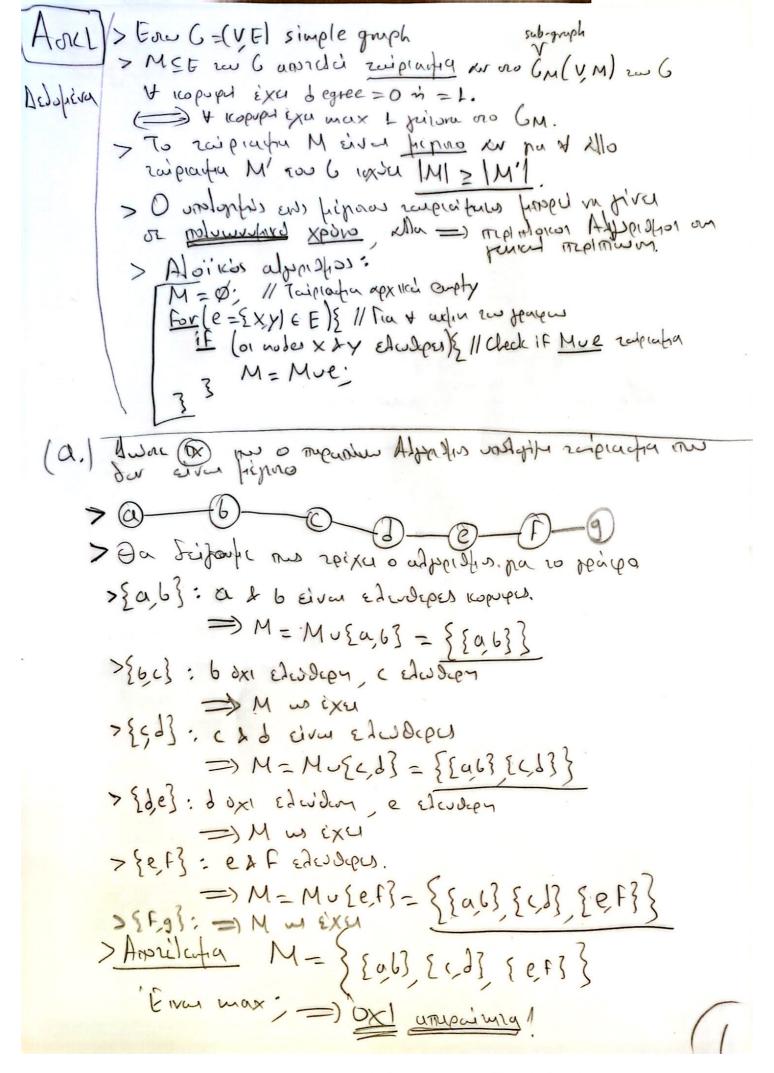
{a, a, a, r}

41/1



9111

(4



Aorll(a) ovrixua Av or exter endexour fre dapparts out ou kararecourt > 2 F, 9 3 = F, 9 Eder Ocpus 100 100 100 => M=MU {f,g} = { [F,g]} > { a, 6 }: a, 6 Edes Jess (copage) => M=Mu{a,6} = { [Fg], {a,6}} >{de}: de Elidon upred =) M=MJ[de] = { [1,9], [a,6], [de] { Tipa ou repossibilité pla acopa copage ors paps: []—(e)—(f)-> { c, c'} = c, c' charles respons => M= Mulc, c'3 = { [+ g] [a l] [b, e] [c c'] } Ifthe al ust vegligethe us an anjupage on M as und ? who we I want con a capable a ingent as A pipas,

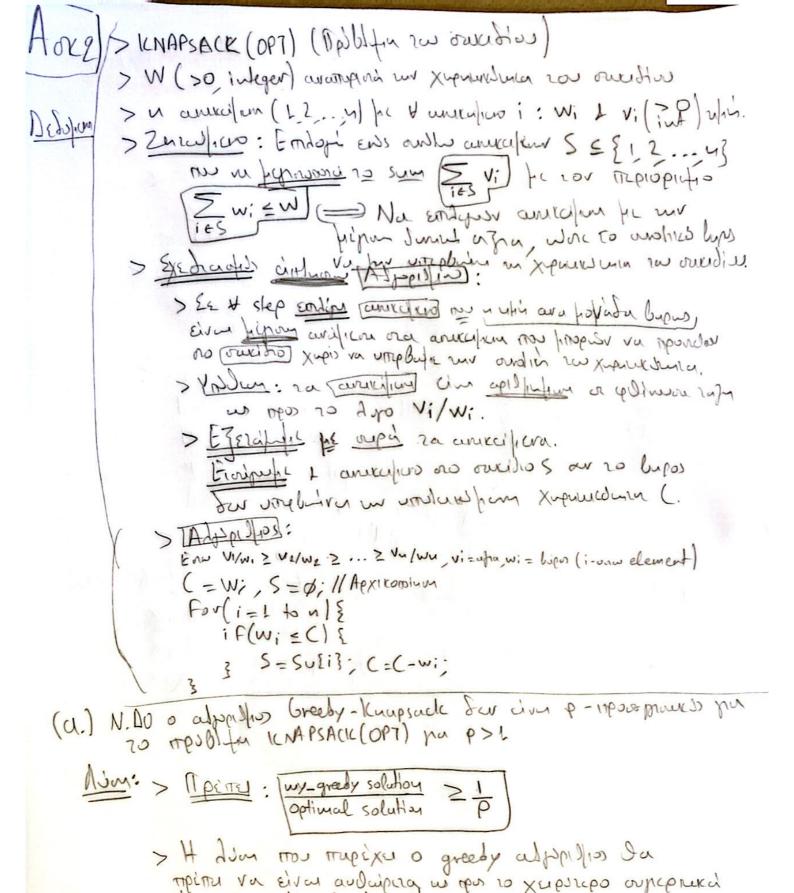
9

Ancl (b) N.D.O o abspilles eine 2-neonmanos
Ancl (b) N.D.O o abspilles eine 2-neonmanos
Ancl (b) N.D.O o abspilles eine 2-neonmanos
C 10m > Mpine ve Sife su: |M| = 1M*1/2 (=) To raipenten M Exa fignes rul. 20 filos Za frepisos ru fripaso raepedofucos M* En Joins es M sira es raigista no da afliggle o without To mes es raiser is essente les columna (a) > Toodice axtres and of 2 whose we show steed foot > Ar Me MU {U, v} // or realibor sin character Miss UN du ever chispen! 7 AV |M|= N =) io # zw willow and 20 ruleinfor elvin (2km) > Enu wears max raigrante M* ouchy "mare" 2 10/1600). Over apola so Mx for em functi va exu & reus & whom shows he

file autil 200 M

Ullo





he wor optimal appropria.

Aoreg (a) ovixua

> Prava Scifefic du o greedy Sur cimp-morphares pra P>1 opites ou Supplie ou 20 Walter -> 0 (froper) And: my-greedy solution -> 0

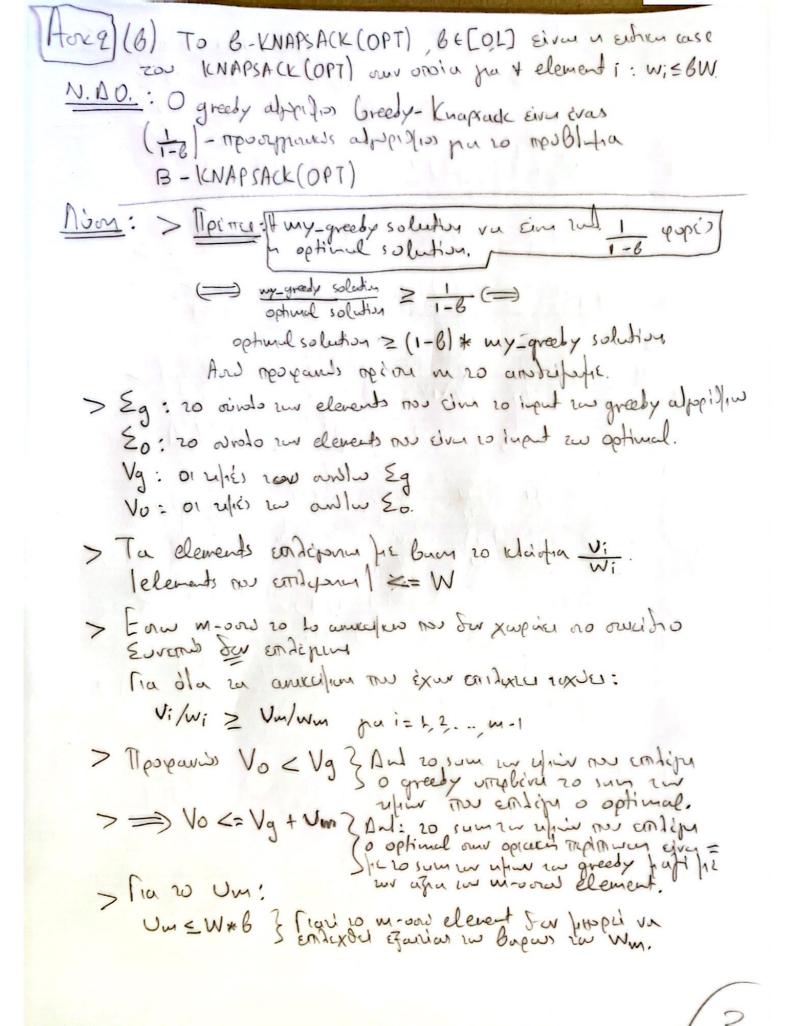
Erw elevent L: pr VI - W = N

Enw elent
$$z : \frac{w_1}{v_2} = \frac{v_1}{v_1} + \frac{v_2}{ct}$$
, $ct : \mu v_2 = \frac{v_1^2 + ct}{v_1^2}$

Tra u -100 n nowhere -> 1 (Mosquer) der da pires oore = 1

Euron's Scippe du 20 my-greedy solhan Klaich a
froper un fiver dos pieps Ortupe

> Euremis o greedy alphillus pa input elevent nes comes repaires traceoper our analysis truit de circu b-uboothong



Aoce (B) > Apr. Vo < Vg + um < Vg + w.b (w. Fightigh and greedy > Emili U./w. u feptigen avalgia nu endyn > Ano (1) & (2) moredmen: Vo = Vg + Vg* b = Vg + w.b. U/w, () Vo ≤ Vg (1+b) () Vo ≤ (1+b)

> Eurow drus o greedy alpertion Eiral (1-6) reportments paro problem 6-KNAPSACK(OPT)