(Loman)

Sapt. 13
= ultrul sauler =

du formere

G=(V,E) - glas meanewhat, (coness)

adiea segue care rep. muchiele nu se inters. In referer.

for I fold injuited

Much. "fotolor"

(fair)

Mu hosta

2

43

42

42

44

3

42

44

dn (f) = gladul emei foje = mr de muchi din lantul inclu's cole o deldentegra.

parte & un lauf de m. m. ori

dylfi)=3; dylf2)=4; dy(f3)=3; dy(fy)=4 suma gl-tofelor=2×m. de muchii 3dylf)=218

first muchuse chibica - are gh. 2

Antfi) = 6

Antfe) = 4.

: istalas

· Suma ghadeler follor 5 du (A = 2-1E)

The polechola Euler (peutile glat conex) |V| = |E| + |F| = 2 n = n + 1

2) Exe: kg i k3,3 - mu sunt polanare Justificare: Alp de lest a planant. pt G. Hamilt .: 1. deservar c. Heuretowan 2 (drag sou corzi)

the sa le puten

imparti in 2 cates. J → m int, fora sa se intersective E - next, \_\_\_\_ 1,4 in J -> (2,5) (3,5) & -1 (2,4), (1,5) ] wate fidus Graf ruber drag - the sã Re Expartit NU ESTE BIPAZTIT =1 glaful mej une e planas asuvati?

The group. run are & (cicleui on o molin)

(E) y de growax 5 m orice graf planar

4) Esse: Fre M = (1,5,7) o lauto, correcci, a feste door de gr. 5 sou 6 si toate for Vf-de gr. 3.

H such most 12 leste de gr. 5.

$$N-m+1Pl=2$$
 $Z \cdot d_M(f) = 2m$ 
 $J \cdot f_5 + 6 \cdot f_6 = 2m$ 
 $J \cdot f_6 = 3m$ 
 $J$ 

$$\frac{27}{3}m - \frac{3m}{2} + \frac{1}{5} + \frac{1}{6}c = 2 / .6 / 6m - 9m + 6 + 5 + 6 + 6 = 1$$

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$$\frac{3m}{3} + \frac{1}{5}c + \frac{1}{6}c + \frac{1}{6}c = \frac{3m}{3}c + \frac{1}{6}c + \frac{1}{$$

a) Vone den. cai daca aven G = (VIE) gl. planer con |V| > 3 = 1E1 4 3 |V| - G un glaf planar me parte avea plea multe mu ex: ks one 5 of, much much earl 10 >.3111-6 101 = 20 > 31VI-C Cu (V) 75 to Sie G. um graf complete coners, Eplanan, hyparks => E & 2 |V| - 4 K3,3 W V/ZC 101-9 214/-4=12-4=8 Dan: Fre M=(V, E, F) harta a lui G: NI-1E1+F1=2 \$ 4% Areu 2 dm(A = 218) (d+(+17,31 ghad 3 = D ( mu ale c. au sup) la gr. lip, dM(x) >,4 J daca un cicla minima ale 5,6... muchii => dm(7) 75 16 ... M (XE, F) (VI-181+F) 5 dy(f) = 2/6/7,4/F) 21=17, 4(2-W+1el) = 8-4|V+41el => 21E/4 4/VI -8 /:2

Shortest Superolling 5) a Reduceti evin. ph la del eenen cicle / lauts / drun houset. -) det cel mai sout sour care are a selven. Estrubele din mulls 4 TACC, CGG ACT, ACCGGA, ACTACZ 1. Constrain ghaful suplapementer cost\_ luy, max a uni Sufix die si care e prefix pt of. Were cost cat mai CGGACT auche, adeba Rypies. cat mai man. ( drew harriet de copt (mark) ACC GGA) av.me auri D= [i,i2, -in] ACTAC every reperior = (4) +150) = Funca Representation Adica lung. tot. Rebrew. - Suprap. R: [A3, S2, Su, S1] - ACC GGA CTACC

stationalinal so bay why af pla

theg. P.D. peulou ph. de hourthoneitato: (de hay, lauf home Subject. : dtiJ[S] BF mas i de nun die i -> lung, max a unui dun care ance ce touris en of i p are mult de varfuri S Sal mark 126 i pt. a vedea de un el Rec. distist = minf dintis-his] + cost [r][i], ves-Sol: man 4 dijt 41,2..m ? ] li=1,m} pl. Sch. & Just: dti][ hiz]=0 (drum de 1 yg. [i] Restul ao. DE 1 7 121 by Graf de Breyn , Le comos toute subsecu. de emplue kas all unui gir >> 8'hul >? (F) view ex core are fluxew. de lup k = muly. data K-3: ATG, TGC, GCA, GTG, GGC, GCG, CGT, TGG Euplap au lung K-1 har menge of on dr Houselt of > (sec) de lung k-1 villable - et pe arce

meleu 945Lung cicu muruhu 4  $d_{M}(4) > 9$  M = M + 14 = 2 M = M + 14 = 2

Siona go fosfolor = 2m

restul au glad 4 mult un uf de grad 43 4(m-1)+14 = 2 4(m-1)+14 = 2 4m-3 = 2m = 4m-8 4m-3 = 4m-8

COLORARE: lation la final up en gr 45

cole l'interior graf planour. I messen up anfor 45

cone on der.

Coloreg an prima ant. ohisp.