Oloien Tema 3 Securitation Information Alexandru 111A2 Exercitive 3 Se de graful Taka-Grant dem figura 3. Descriefé ce repuli de transi pie de tip Take-Grant trebuire aplicate asupra acestri digraf astfel most, dupa aplicarea acestro reguli, subiectul X se obljina dreptul r anyra obiedulini z. tigure 3: × t 10 2 30 1. x create tig for new subject 5 49-30 2. y take g for s from x x t y r 3. y grant 1 for Z to s 4. X take r for t from s In filmel, dipo executorero x one soepter r asyrica obiectului Z.

Oloievi
Alexandru
111A-2
Exercipient 1
Se don une toorde modele BLP, répretiv Sibe.
BLP: Doctor (24)
Asistente Secretore
Pavient (24)
Bibe: Salo Operation (WH)
the section
Urgentye
Personal (WL)
1 le subjecte si objecte, cu trichetele de
Se consideré unatoèrele subiecte si obiecte, cu trichetele de confidentifalitete si integritete coressimo bosone:
confidential and to be to be
Subjecte, Obiecte 2 W
S1: Dave Doctor Sala Openation S2: Nancy Axistentia Urgente
Sz. Shori Secretore argente
Sy: Paul Pacient Personal
a: Chitange Scutara Personal
Oz: Refeto Doctor Urgente
Oz: lista Asistento sala Generalii
04: Dosar Sentero Uzgente

Combinati cele done modele conform cambin 3 de combinere (etichete Independente, diredjii diffii te pentice velocre e maximo)

Doctor, Personal - 2H WL

Doctor, Urgente

Avistente, Personal

Asistente, Pela questii

Asistente, Pela Greatii

Recent , Sala Greatii

Lacient , Wegente

Pacient , Sala Greatii - 2 WH

Laticele au clasele de sanitate maximale in directji diferite (12-> 24, WH -> WL)

- · s poete citi a doer dece λ(s) ≥ λ(o) si ω(s) ≥ ω(o)
- · s poste sure o door dele

 $\chi(s) \leq \chi(o)$ si $\omega(s) \leq \omega(o)$

(Conform documentalin stide-ulin 7 des documental de pe popura web)

Olonen (irinta b) Alexandra heisoti volocue de adevoir a usmotoculor aformati 111AZ si justificați rospundul, pe beso latici obținute le a): i) Dave cite, ste listo. W (Dove) = Solo Grenotii
W (Lista) = Solo Grenotii A (Dave) = Doctor 1 (liste) = Asistenta 2(Dave/ > 2(listo) findce Doctor se afte mei his ducet liste in graf iar sensul de vitire e in jos W (Dave) ≥ w (Listo) - sunt yele =) $\lambda(\text{Dave}) \geq \lambda(\text{liste}) \text{ si } \omega(\text{Dave}) \geq \omega(\text{liste})$ du Pare poste cité liste du Pare citeste liste « ADEVA RATA ii) Nancy citeste Doson. M(Nancy) = Asistento W(Nancy) = Ungente 2(Doron) = secretario W (Doron) = Urgente Asistente si kontere sunt incomperabile (su & gréseste mi un drum de le (Doctor Nervouel) le (Pacient, SO) come se intélherses Asistente si soutere), deci afirmatia "Namey vitiste Doser" e folso (me poet mei citi si mei sure Doger) Rogum: Fals

-4-

(Paul) = Pavient (Paul) = Remonal

2 (Paul) = Pavient (Paul) = Remonal

2 (Refete) = Doctor (Paul) = Urgente

Non existe vivi un drum de la

(Pavient, Sola Operation) \$ti pama la Godor, Passonal)

(Pavient, Sola Operation) \$ti pama la Godor, Passonal)

cau se treeca pura (Pavient, Personal) \$1' pura

(Boctor, Urgente) =) Paul pi Refete sunt

in comparabile deci

afirmation "Poul rure Petete" e falsa.

Réspus: Fals

Oloien Rexandu 111/42

Exercitivel 2 - Modelul Take - Grant. hedicatel con-share

Se de graful Talu-Grant G din Figure 2.1.

Decidet doca unatoral predicat are valore true

sen falk, verificand explicit conditione Teoremei 5

din curs (se vor precise valorile pentre 5, 5, p, /1.../n,

punet existente inte insule):

can-share (w, 0,7, 5,1, 6) =?

Verificiem doce $\omega \in \mathcal{G}(S_{11}, Q_{17})$, si noce e adevient, nelvistend arc direct de le su le op. Trebruie deci so verificem si conditiéele din Capul 2.

Car 2.
can share (r, x, p, 6) is true if there exists a mode s,
two subjects p' and s', and islands 4, -, In such that:
$\mathbb{O} r \in_{\mathcal{G}}(s, x)$
@ p'=p or p' initially spens top
of = p or p' initially spens to p of = s or of terminally spans to s
Op' is in 1, s' is in la, and there is a bridge from
li to lits for all 15j< M
O Adevent, ∃ un mod s. a.i. r €G(s, x)
S=0,16, findce WE G(0,6,0,7)
D'Adeviend, I un subject l'a. r. p'=p, l'y cosul nostru:
p = S11, p' = S11 = p
3 Adwent, 3 un subject of core & extende terminal
la s. la noi s= 016 si 3 s'= \$15:
· A mode terminally grows to y if x is a subject
and there is a fp-poth between x and y with an
and there is a fg-poth between x and y with an amoriated world in (£): x=515, y=016, during the la siste 016 & format dir £"
(1) Cumble dir graful mostru:
Consideren unetoent innele.
1= { 511 } 13 = { 53, 59, 500 }
(2= { S1, 52} (4= { S15, S16}

Oloilu Alexandru 111A-2 Exercifiel 2 continuore. A bridge is a g-poth with endpoints both subjects and with an associated word in (F)" + (F)" + (F)" g (F)" + (F) " g (F)" . Putre li si la existe o punte: SIN 04 SI (F F = (F)) · Putre 12 sis existe & punte: SL 06 07 08 Sg (T' g T F = (T) g () . Portu 13 si 14 reiste o punte: S10 Q12 Q13 S15 (EFT & = FT) = (FT) Asader conditia e moleplimite: $p' = Su \in 4$ · s' = s15 E/4 existe punte entre lj si lj+2 pt/g < 4 Aga anetot ce toote conditaile mut moderlimite, deci can share (N, 014, Su, 6) = truce