

- a) daná sieht <u>nie je obnedomá</u> -> schom desateikelnytek onatení nemať hovetnyť skaroný priedor -> neetrivalencia o konetnými automalni. Slangraí murotina môte udáha predoba 15 a 16 rást donetronetna. Signotianje ho w.
- b) dancé siet <u>mie je herpetroé</u> -> exicluje srotenie με[μο), kde = 1 με P.

 Μ(μ) > 1. Jakkiet ou r shome docialmuletných srotení vyskyluje ω,

 το signalizuje, te siet nie je herpetroé, roboliko srotenie v bombo

 mieste rôte neobrednene réal
- c) snatenie M₁ nie je pohydelné -> meexiologi snatenie M'E [Mo) pre Id.

 ly plotile M'≥ M₁. Juit shubënost jë nidiet so shome dosiahuulelinjih
 snateni | noboliho by sne pohiloreli | aby v nom exiolorel slav nepr.

 (ω₁0,1,1,ω) aldo iny splinigici pohnienhe pohydelnosti | ale neexistuje
- d) piet mose byt sina -> pre stadé desiahnuletné snatenie M exiduje snatenie M'E[M) hobií, se shoresolne LET je prombiletné pri snatení M'.

 Gignelismie do aj nebonečný o slobe oposnýchi se podla nrtilej schámy, slavný priedor shom dosiahnuletných snatení a v rom príhomna w.

$$\begin{array}{rcl}
-x_1 + x_2 - x_3 & = 0 \\
-2x_3 + x_4 - x_5 & = 0 \\
2x_3 - x_4 + x_5 & = 0 \\
+x_1 - x_2 + x_3 & = 0
\end{array}$$

P-inorianty: (
$$\%$$
 is reference rela)
$$(1,1,0,0,0)$$

$$(0,0,0,1,1)$$

$$(0,1,1,2,0)$$

sudara romic ma' netoneine
vela niereni. Bre P inavianty
musi plutit NT. i = 0.

2 danej romest nanita' nysore
modera' sudara romic.

a)
$$w_1 = (1,2,1,3,1)$$
 - go dosodení do romic \Rightarrow je P-imariant $w_2 = (1,2,1,2,1)$ - go dosodení do romic \Rightarrow nie je P-imariant

Prisladan si dang
$$|(2,0,2,0,2)| = 6$$
 a $|(2,0,0,1,1)| = 4$

- sit je konsernationa polla nailovélo vektra (1,2,1,3,1)- nailouj vektra sme sistali linesimon kombinación medenyel P-invarianto - platí $HH \in [M_0] : \tilde{\Sigma} \text{ Noi. } M(pi) = \tilde{\Sigma} \text{ Noi. } H_0(pi)$

 $\lambda = 1$ $\lambda =$

- Davidy P-invariant je rathry westor, obsehu loto, sele sú samé 0

c) pracemie $M_2 = (3,0,1,1,2)$ nie zi dosorsitelné, prebže neplatí pre boždy P-invariant i: $M_2 \cdot i \neq M_0 \cdot i$. Pribledom zi P-invariant (1,2,1,3,1) pre St. dané hudenie nie ze plalné.

P-invarianty nom donajni príklad natovélo nebbra a polndenjní boncerna
kímost pollá demét notovélo nebbra. Jablia maria, ke dana

sit je olmedomá, prebose je pobryla P-invariantami sexistiný

P-invariant W=(mo...wm), kde wi>0, pre i \in 0...m

Vydeidsom a helvelsy modernej v prislade 2.)

Na scislade definicie T-invariantor musi platit $N \cdot i = 0$, sole $N \cdot j$ make a helvelsy a i je vekka (P-invariant). 2 moderného main parismá romice:

$$- x_{1} + x_{1} = 0$$

$$x_{1} - x_{1} = 0$$

$$- x_{1} = 2x_{2} + 2x_{3} + x_{1} = 0$$

$$x_{2} - x_{3} = 0$$

$$- x_{2} + x_{3} = 0$$

a) $n_1 = (30, 20, 20, 30) - po dosadení do súslavy rovníc -3 je T-invariant$ $<math>n_2 = (2, 3, 2, 3) - po dosadení do súslavy rovníc -3 nie je T-invariant$

Tela 9.9 Do skript PES (str. 150) meni:

Vokola kira a obredoma kiet je pokreja T-imariansami. Dana nesa predatarnje nutni podmiensu pre kirast obredomej pokrita siete.
Vrzekejna a nej: Nie je dana petrila siet pokreja T-imariansami, polom nie je kira, aleto nie je obredoma.

2 njoin mederélo môsme posedat, se posial by siet melola Forzyla T-imarianlami, bis me je sien sinoi a saroven obmedzena.

Usedbeene noim T-invarianty bouria, bolto král musime provéd dany predod, aby some sa, portnejúc mreitym smaterim, dostali maspat do danélo smateria, a tobo sa taktiež doi nepriamo a sa istyl obohostí mreit sirost, ausak nie nedy a nie s absolitnou istobu. Ide stor o dotady.

Triblad 2

- 1. Výsledby analýsy:
 - siet je bespecna -> + p EP. M(p) = 1
 - siet je almadrena -> andrettro je siet burgeina, tak je aj almadrena, leder almadrenast je definancia also k- bergeinast, pre LEN+
 - siet grie ze sira > or dany siedi sa njekyluze proces kezi ale desalnyi

 [livelock " -> osnotnye sidnościm, 2 de zeden proces kezi ale desalnyi
 slany ila e obnedzegaj pedmiosiny kódu, luz możnosti dosialnut
 celonelo slava. V notoj siedi je możne lo interpetanat v

 rainer simulacie v Nellala, sedy sa ola flagy nastania
 ma true
 - siet nie ze abrithe konservationa, ale sanoven mexichize and de sanoven mexichize and de sanoven rectors (1,1,0,1,1,1,0,1,0,1,0,1,1), blay do sanoven, se dana ait je konservationa polla restovelo rellora
 - e analyje v Nellalu nystyna:
 - polit aciloneto moligimme nghúcemie je hopeina a konservatina

 polit aciloneto molora. V strone dosazi telných knatení vidtel j

 Re P1 a P0 sa nevodcidrojú spo KS sutadne mitody.

 Nedlebe
 - · deadlook -> nemoze noslat -> Brozine a analysny ~ Nellabe
 - siet 🛊 rosoven me je reversibilme
- 2. Probabl pri neobnedanom množalne prousor negarantnje naožamne repličenie nobela pri relam podle prousor sa može stat, že 2 a nich brati mot romany intertitator (preteženie premennej). 2 toto dorodu sa index do dosot do kritickej sekcie noral.

b1	l-21	J- 3	1 641	&21-> k31	&41->A	611-5 B
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0	1	1	0	1	1	The second of th
0	1	1	1	1	1	The second secon
1	0	0	O	The second secon	1	The first transfer to the first of the first transfer to the first transfer transfer to the first transfer transfer to the first transfer
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1	1	1	0	1	1	The Profession Company to the Company of the Profession of the Company of the Com
1	1	1	1	1	1	And the second s

star systemu, ledy by platilo b1' N b2' N b3 N b4' nemose

or danom C/E systeme mildy maket | preto prie je pre nois

podalalné | ci dana bomula bude or danom slave systemu

platna. Pre osblané prípady je dana formula nizdy platna!

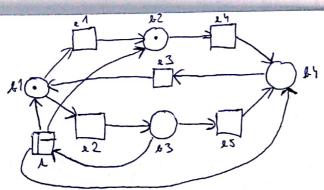
2 blo nytyra , ae dana formula je platna.

Natrolto vo folkel by sne nemali poveriot negacie, policime sa periot lædt b1'-) by v b 2 v b 3' na formula neoladujuica negacia dany falst je elvi polyoveda formuli b1'->(b4'->(b4'->b3'))

podla definicie 6.7 rodriplách PES (strana 88)

Fallon pre formulu moderní v sodaní je: [b3-> b1v b2v b4]
Dásaz je so some prandiroslnýce hluliež, žete dané dve somule (bakty)
majní romaže prandiroslne sodnoty.

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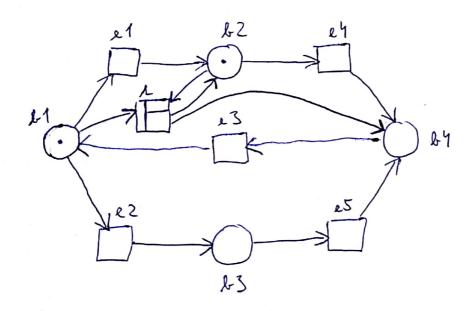


b)	(b1 h			(12	0 1.
/	(fr 1)	b2)	 >	(b2 v	254)

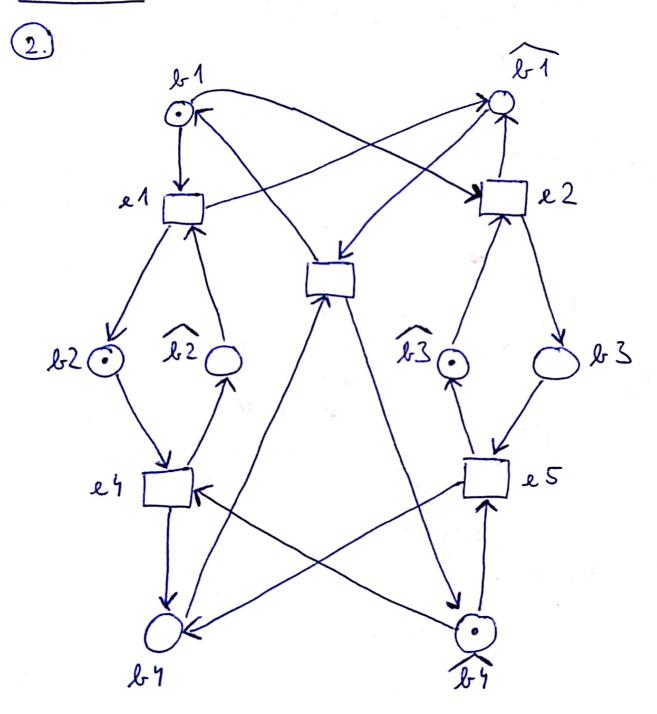
b 1	k 2	ЬY	b1 n b2	ይ2∨ ይ ነ	(b1,b2)->(b2vb4)
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0	0	0	The second secon	and the second	and the second s
•			•	0	1

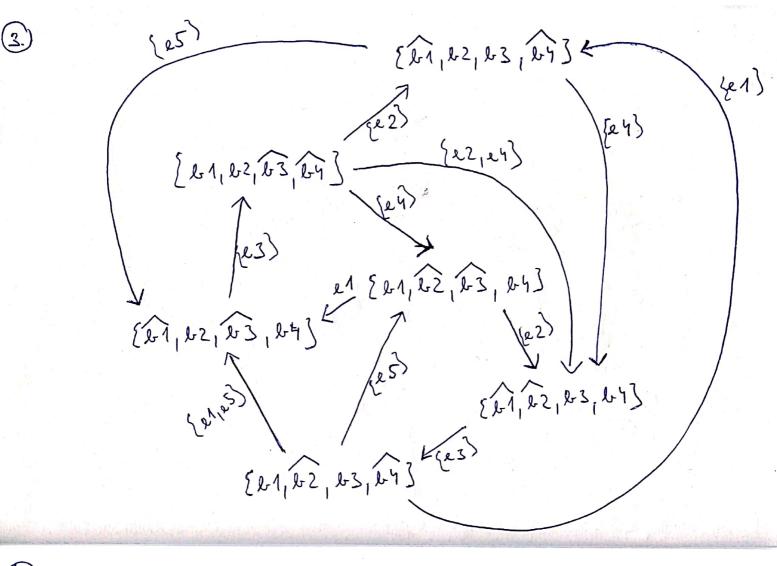
Formula je platra' no nisebbych stanoch C/E systemu. 2 blo nythýra, re bornula je platra'.

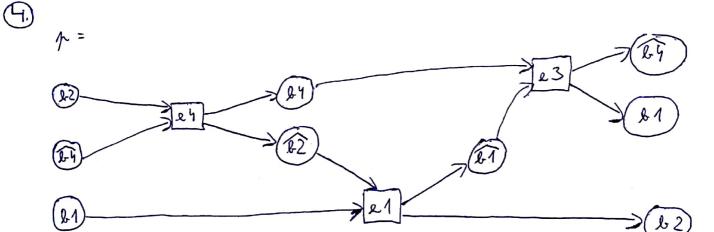
Zadana formula sapisana jomocon lokku:



Priblad 3







From p 2 pribladu (4) supresentage odpoveda nasledujúcej ceste:

W= 24 21 23