KCHROSKAROT CRYTA U ODYHKULIJA U GODINHUWIJA TROBANHOT U ROKANACI CIMMYMA



X & A

 $2 = \lambda \cdot \times + (n-\lambda)y \rightarrow CKYN CBUX TAYAKA UBUT

SONULA CE HASUBA RYHH Y <math>\mathbb{R}^{n}$

R">n-Ayu. npocrop

X-CKANAP X-Y-KPAJHE TAMKE AYHU

The JE X-Y npaday AYHU

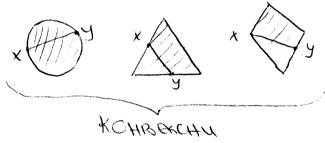
x 2 y

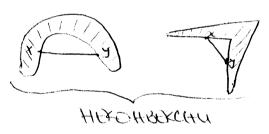
2= X+dy -> CKYN CBUX TAYAKA OBOT CONUKA d>0 CE HASHBA <u>NONYABABA</u> Y RA d-CKANAP

X-KPAJIHA MYKA MYNPAHE Y-NPAHAU NONYNPAHE

* KOHBERCHU CKYN

· CKYN SER" JE KCHBEKCAH AKO ROPED, CBAKE DISE CISCIPE TRYKE X MY CADDIM.
IN CISE TRYKE DYHM XY. (BUND KITE I TRYKE U DYH KUJA MX CIDAJA DIA DIAMADAJY TOM CKYNY)





«Пресех конвексних скупсья де конвексан скуп.

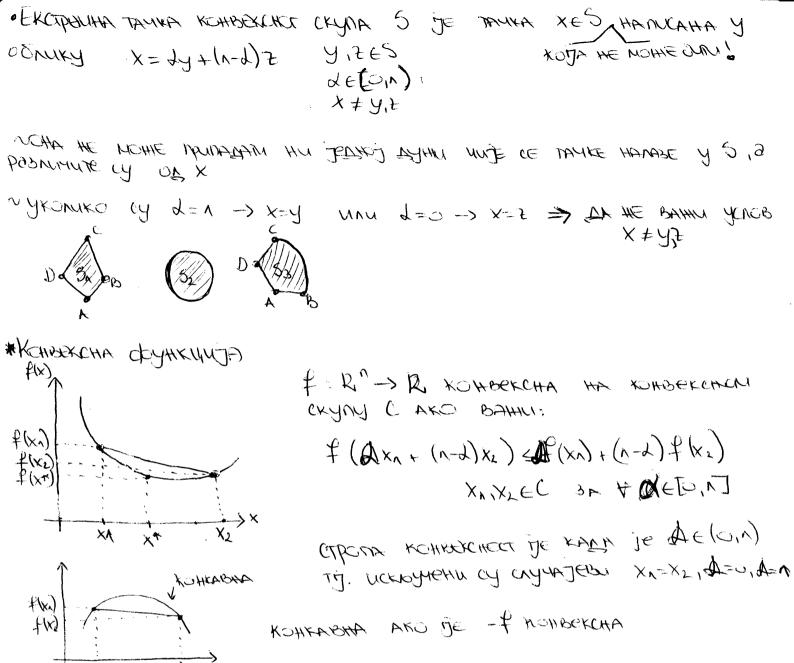
• KOHBEKCHA KOMOWHAWWA. TAMKA \times y R'' HASUBA CE KOHREKCHEM KENEWHA-UNIJOM TAMAKA $\times_{A_1}\times_{A_2}$... \times_{A_m} ORDE PROCETOPA AKO CE MOME HAMICAM y CEMUKY

1:30 , 1=1.m

Therefore $x_{\lambda} = (0, \lambda, \lambda)$ $x_{\lambda} = (\lambda, \lambda, \lambda)$ $x_{\lambda} = (\lambda, \lambda, \lambda)$

 $X = d_{\lambda}(0,n,n) + d_{\lambda}(n,b,z) + d_{\lambda}(u,n,n) = (d_{\lambda}+ud_{\lambda},d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d_{\lambda}+d$

 $d_{1} + d_{2} + d_{3} = n$ $d_{1} + d_{2} + d_{3} = n$



* MOSANHU U NOKANHU CHTULYN.

· JA TANKY X* EX KAHHELIO DA JE MODANIM MUHUNYM CKYMKUNJE & HA CKYMY X , AKO BAHNU:

f(x*) <f(x) on coe xEX,

TJ AKO Y HOJ CHYHKUMJA & ADOTNINE CBOJJ MUHUMANHY BYEAHOCT HAX. AKO BAHM JAMI YCNOB

f(x*)< f(x) on obe XEX, X = X*

ТАДА ЈЕ ХФ СТРОПИ ГЛОБАЛНИ МИНИМУМ. АКО ЈЕ f НЕПРЕКЛИЈНА, А СКУП X ЗАТВОРЕН И ОТРАНИЛЕН (f ДОСТИНЕ МИНИМАПНУ ВРЕДНОСТ, 79. ПОСТОЈИ (f ДЕДАН) ГЛОБАЛНИ МИНИМУМ f ХФСf.

· BA TAURY X EX KAHIENO LA JE NOKANHU MUHUNUM DYHKINIZE & HA CHYNY X, AKO NOCTOJU 6>0 TAKO LA JE

f(xx)<f(x) on use XEX TARBE IA JE 1/X-X*/1(8, X±X*,

TRUKA XXX CE HABUBA CTPOTU MKANHU MUHUNYM.

CIPOLU VOC (LVORY VAR)

(LVORY VAR)

XELU'P)

XELU'P)

XELU'P)

* OBO CY THOSE IN NORTHWAY OF THE WAR CHUYM

- KIAMA CY COA OFPAHNYEIDA NOTOF TUNA (Y DOOM CNYMAN TUNA JENHA-

- CUMETPUMHU OGNUK : KADA CY CBA OTP. HEJELHAMWHE UCTOS DINA

$$(\max) \ CTx \qquad (\min) \ CTx$$

$$Po. \qquad Po.$$

$$Ax < b \qquad Ax > b$$

$$x > o$$

* CBOTETBA

- 1. KOHAYAH BROJ TEHEHA
- -AKO JE COEMACT D HERPRIAH CRYR, TAMA D REACTABBA N-MILLEHBUO-
- (a) NOCTOJU EAP JELLHO TELE OSNACTU D, U
- (5) Epoj TOLICHA OSMACOU D JE KOHAYAH

2. Et 3 MCTEHUNTA OMMANHUX TENEHA

- MANHALL REAZEUNIU AHO ATEL AGAIRD AHVENIUMO AMN I O MDANGO
- (a) JEANHCIBERD -TENE OGNACIN D
- (6) BUILLECTPYRO HEKA CTPAHA OSNACTU D KOJA CARPHIU DAP JERANO TELE OSMICTU

3 KENTERNIAM OUMNEWACELM LEMBHA

-AKO OPOBREM WHA OFTUMANHO PELLETHE U TOME XO US D UCHYTHABA YCHOE THE LOCKOIN HANNY CHCETHO LATE À MONE LE BLETHOCT OPATIKANIE MUMB HAIDAIBETTA OR F(X0), TRAD X0 MPERCTABODA JERNO OMMIDANO BETTERE

4. ELGICLEHAMJU OLUMHUVADL BETTELDE

- AHU USBY HEADON ALAM, AHENNHAPTO N AHEAYNEH O TOANBOL I CHA (6)
- (6) AKO JE OSNACT D HERPASHA U HEOPPAHUYEHA, TARRA NPOSTEM Y KOHE CE BPILLU MAKIC. (MUK.) OBYHKUNIF UMBA UMA DITUMANHO PALIBBE OHER U CARD OHER ARO IS OBA OFYHKARIJA ODPAHRARHA (02000) 016020
- -> KONDUHATOPHA OPMINISALISA-KARA CE EXCEPTIVN OPYTKULJE TRAHU HA CKAUA KOHAAHO MHOLO OVEMEHALA

$$\Rightarrow d \underbrace{\max_{p \in Q} p(x)}_{\text{unn}} = C_n \times_n + C_2 \times_2 + \dots + C_n \times_n$$

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$$= C_n \times_n + C_2 \times_n$$

претоставка: Завовоюена су и Дии г услова:

- (1) \$b; , i= n, ..., w HEHETAMBHY TJ. 6>0
- (2) m <n u rang A = m CIDE JEALLYWHE CUCREHA OPPAHUVE-THA CY NUHEAPHO HEBABUCHE

-EUNO MOIN STATURE VI ONTITUE OFFICIE CE MOTHE CRECIN HA CLAHTONOTHIN

* Costethe HA CTAHCAPAHU

NAMO JE HEKU CRODEHU MAH D; HETATUBAH, TALA CE OFPAHUMENE MHOHMU CA -1, TAE > NPENAGU Y & U OSPHYTO

NYBOGE CE USPABHABAYTE SI AKO JE S OHEA +SI,
AKO JE J OHEA -SI

AHOART THANGO ABUNDYNGA JE ALAT, ACHUBA AMBH CENART PABHA

 \rightarrow AKO JE PAHT MATPULE A (1) = n (1)170 GE BELLIABA KARA JE W.>n), TARE IE LONYCHIBA ODNACI JERHOWAH CHYN (JERMANIBEHO PELLIEBE) WWW WEADAN CKIN (AKO KETTERBE HE 34TOBODARA ALOB WANDELAOL OLDAHMARRA)

* DASHA PELLEBA

(AHSWUHAGTO) -nocharpand cucien nuheaphux Jeahannha AX=D, npu weny JE 3A-DBODER YCHOB ITAMY A = M < N 1

• DASHO PELLEBE -OHO PELLEBE 3A XOJE NOCION HEKA MXN NOCHLATIPULA AB MATRICLE A KOJA JE PETYNAPHA (detAb #0) U TAKBA &A JE Y OBOM PE-Welly CBARA MONEHAURA UNDA CE KONOHA KOEDUUNZHATA HE HANABU Y AB, JEDHAKA O.

N NOTHERMORE KOTE QUI. KONDHAMA NOQUATRINE AB-: DASHE NOOME HOUBEN, A MREDGAME CY HEBASHE.

UCKYN CBUX BASHUX MPOHEHOUBUX - BASE, A AB-MATPULA BASE

- CBAKO OHO PELLEHE CUCTEMA KOJE WHA HAJBULLE M NOMEHBURUX PA-
- AHEAGN DANGO ABUTOLOGO JE ALAT, UCODON JA CHO CAA; UDCHBURA
- · CYCERHA BASHA LONYCTUBA PELLEHA 2 CASHA LONYCTUBA PELLEHA CY CYCE-LHA AKO ULI Œ GASE PASMIKYJY CAMO Y JERHOJ NPOMEHMUBOJ
- + ANTEDAPCKA ULIEHTINDENKAINIJA TENEHA HEKA TANKA NPELIJABBBA TENE LONG-CTUBE OGNACTU CTAHLAAPLHOT OGNUKA AKO U CANO AKO JE OHA HETOBO DASHO LONGCTUBO PRIJEHE
- · MELBARD ROMAND POMOLIPS HOMBRE AKO JE Y HORDH ORSHOM POMY-

* Kopayu.

- 1. Почетно рашение (иничнувнизација): почетно базно Допустиво PRIMETER (Xo=(0,0,...,0, bi, bz,...,bu)); NOMETHA OABA (Bo=B=(Xnin, Xniz:.., Xnin)) NOMETHA BREATHOUT OPYHRUNTE (FO = 0)
- 2. UTEPANSHU KOPAK (K=011,2...) HANAHEBE SOLET CYCENAGE PELLEBA, MOREPA ONNUMANHOCTU (YKONUKO JE XK OMUMANHO 10BAE JE MAJ)
- 3. CYCENTHO PELLIETE BONE -> BPATIAHE HA APYTU KOPAK

* OcoSuHE.

- ◆ KPETIE US HEKOT DOMETHOT PELLERD
- · OGUNADU CAND TEMEHA (UTO CYCENHA)
- ·HE YOULLA Y OSSUP EDD TOPALA AS DITULHANHOT PELICHA
- · KOHAYAH &POJ WARAHUJA (XOHAYAH &P TENBHA)
- · MAY OUSTINED DETIEVE
- · EKCNOHEHULIJANHA (NOHALIA CE NONUHOMUJANHO)

Mick $f(x) = C_1 \times A_1 + C_2 \times A_2 + \dots + C_n \times A_n$ P.O.

Chanky $f(x) = C_1 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ Chanky $f(x) = C_1 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ Chanky $f(x) = C_1 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ Chanky $f(x) = C_1 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ $f(x) = C_1 \times A_1 + C_2 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ $f(x) = C_1 \times A_1 + C_2 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ $f(x) = C_1 \times A_1 + C_2 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ $f(x) = C_1 \times A_1 + C_2 \times A_2 + \dots + C_n \times A_n + X_{n+n} = D_n$ $f(x) = C_1 \times A_1 + C_2 \times A_2 + \dots + C_n \times A_n + X_n +$

WHENDETARHOH M... N=1, id USID YD ALL CHURATIOCHIPANON

- B= dxma, xm2, ..., xmm3
- > KAHOHCKU ONUK MROBNEUR Y CEMOCY HA HOKU CKYM MODHEHOUBUX B, JE EUB GOTHMA BETOBO! CHALLAPENDI OEMIKA Y KOJUJ CE COAKA ONDHA MYDME-HOUBA JABBA Y (AMO JEEMOJ JEEHAMUHU ORP. CA KOEDOMUJEMPH +N, A HE JABBA CE Y ORYHKUNJU YUBA

NAKO CY (BU MAHOBU KÖJU CY (NOSOLHU HEHETATUBHU: ADNYCTUBA BABA

NAKO JE CUMEIRUKA ODNUK: < -> UZRABHABAJJAE

NBAETHOCI OP-DE MINON = CVOROTUM AV GOLDE A KUMPHCKOL DOWNER OF OBJETHORING AND OLD KURTA

Xjk, je (1,2...n) - Hedasha mpoherbursa pewerba X

KAHOHCKU OSNUKI:

expression y K-TOJ LITEPAULIJU:

(uax f(x) = Cnxn+C2x2+...+Cnxn p.o.

Max f(x) = ch x h + (2x2+ ... + ch x n + + k

 $a_{n}x_{1}+a_{n}x_{2}+\cdots+a_{n}x_{n}=b_{n}$ $a_{n}x_{1}+a_{n}x_{2}+\cdots+a_{n}x_{n}=b_{n}$

P.O. CINNXN + CINXXX + ... + CINXXN = bn $A_{2n}^{k} \times_{A}^{k} + a_{21}^{k} \times_{A}^{k} + ... + a_{2n}^{k} \times_{A}^{k} = b_{2n}^{k}$

 $\Omega_{m_1X_1} + \Omega_{m_2X_2} + \cdots + \Omega_{m_1X_n} = bm$

Chuxut amixut ... + Chuxu = bm

X1, 1/2, --- - (X1 > 0

Xh, Xh, 1. Xh >0

O'L'CO 'V THE OT AUMAND HY BASTHOCK A CHANDA C'ED.

* KRUEDIJYH ODTWANDOW!

· AKO JE CIE ¿O BA Y j=n ... O , TALLA JE XL ONTUDANHO PELLEUSE MOBBREHA 3 FL MAXCUMANHA OPELHOCT OPYHKYUJE UMAA.

NXL -> OMTUHAMO: AKO CE HUKAKBULI NOBETATU BYEDHOCT FL DYHKUNJE UMBA.

~Xh -> HUJE OMULIANHO: MENABAN HA CYCELAY TRAKY Y DOMYCTUBOH
CKYMY U NOWKOLL Y CYCELAY BABY OU TREEMS LA Y'SE OHA MONEMENTAL
BA KON KOJE JE CJE HAKCHUANHO.

* MILLEDIZA MACKA UKNIEHPURSE A OKSÁ.

MARGER S BAHLU: CS = max dCt. Ct>03

ican-ny

(Thephrape Hobor Kahohokor Ogurka 12.

· HAKOH ITTO IE TROPDENO EV DEMERO HAZE OUNMANTO INDIDEND DE HONAH IN STAGN AS A CON A, KEND R STR AS ASST. HOSA DE WHATE IN HAKOH тога формирали нови канонски облик.

*USNABAK US GASE.

- 34 NOTHERBUBY Xº KOJA YNABU Y BRAY BRAN TREBA ORDETUTU KONIKO (E

-y CBAKOM PEWERY X MAMERIANDE X5 W Xn+n, i=n...m TPESA AN SALDBONGE CLICTELI: Choxo + Xmn = bn

Ozs Xo + Xmx = bn

your Xp + X Warm = PM XX 1XMM ... XVM 30

NAKO JE: ais>0 , TALA CE XX MOHIE NOBETATU HAJBUILE DO GIS, NOU YEAR CE XX, CMAHRAJE DO O NOBETHABEN NEWS HERDINGUIBO. NATA NOTAGE HETANISHO, NA SU X SUNO HERDINGUIBO.

(1:5 =0, TALLA CONSETTATIONE XS HE YTUME HA XOLI U OH JE YBER, JELHAR, XOLI = DI

Clis 40, TALA CE XX HOHIE HEOTPAHUYEHO NOBETIABATU, A LA MU TOME PACTE HEOTPHUVEHOU XXXI V.

LOSHOR LAURA VEDPORANA CONO CAMO CATA OR BLETHOU X? HE LIBERARY

do= min (Dio : cis>0}

NPELLEGRE X Y KOME JE X5=d5 MPOLICIABOA BABHO RONYCTUBO, KOJE JE CYCELHO CA XL JEP BU INTORA BASA CALPHIANA XS U CISE NOOMETHARE UD BL, CEN JEAHE OR CHUX KOJE CY NOCHARE O.

NBPERHOUT OF THEILIFE ON SUMA: FK+C5. 6

· KOLLEDITH RSWCKY WONEHAUSE UP SASE Us dast By ushasu the momentum X_{n+r} , ref., x_n , x_n , x#HUBU KAHOHCKU OSNUK. - NAMERON JETHOR KOPAKA TAYC-HIOPAANONSE MERQUE BIUNUHAUNJE - 1-17 JEWHUMAAA A COUCENA WEAHAMEAD : CONXULT - + CONXULT XV Chuxx + ... + amn xx + Xx + xx = bu TREST DEMINITUR NO XS, LANGE CE XP, NODAHIABE DECO HOBYX HEDASHIX N, dolyknings impor mox E(x) = Cruxy + Cusxs + + Crxx + Ex - UNDER THEH 3) ACHUANDOCIONHAGT ARXANO. (2) MHOHIEBEM (LEWEIDEM) I-TE JEAHMUHE CA HEHYNTOM KYKMHTOM TEGN, 2, ..., mg (3) CASLIPAGEN 1-TE JERHAUHE CA J-DH 111Ed K...my, (#) · Apolijahe Kahoherut Obruka y ofthocy HA Ensy Bran (1) 1-70 orpaninalpo ce tem (9 alp (2) AKO JE 915 +0, TALA CE 1-TO (TPAHCOCOPHUCAHO), MHOHM CA -015 U DEADLE 1-10H OLDHMALPA 34 CRUPS IEGV-WA, 176 An, is there in the continuation of the contin NACOJEMU KANDHUKU ODNUM: $\frac{1}{2}$ $\frac{1}{2}$ Pyruso so Aleguing *Проширани критерийни Уласка у бабу. · Y DADY BENT YNASU OHA NACHELIMUBA X5, SEC(N, 2, U) ISA YUJU UHRE-RC 2 BAHILY CP. 92 = Wax dCP. 97 = C1 > 03,

The je di = min dit : ai >0}

N OST. BASHOT PELLIEHA

 $\max f(x) = c_1 x_1 + \cdots + c_n x_n$ ps.

Chaxa + Chazxx + . . + ChroxotXnta = br

azaxa + azzxz + ·· + aza xn+xn+z=bz

amaxa + amaxz+ - + amaxn+Xn+m=bu

C<nx, ..., c<xx, c<nX

(war) CTX

C/ ZKXA

CEUX, CERX

 $C = (C_1 - C_1)$ $X_1 = (X_1 - X_1)$

XB=(Xn+n ... Xn+m)

KAHOHOKU CÓNUK.

-> BASHA UDONEHOUBA: CAMO Y JERHOJ JERHAMMAN Y JOHNSHOJU WIDA KOEGOUGUJEHT +N HE JABBA CE Y ODYAKUMJU UMBA

-) AKO CY CRU bi>0 - EASA JE DONYCTUBA

-> AKO JE NPOSTEN Y CULLETPUMPOH OSNUKY: USPABHABAJJAE

·Touetto BASHO LONYCTUBO periene la JESHARO JE GASHOH PETHERAN CHOLEMY JETHWARMY OLIGHMARIPH FOR STORBALLY BY PHINARMY MOYETTO KAHOACKOT OBNUKA, APTO JE FO =0 TJ.

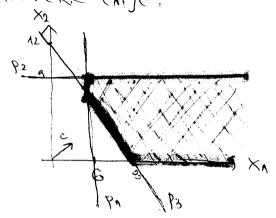
- -MOYETHO EASHD ADMYCRUBO PELLIEIDE: X=(0,0,...,0,1bn,...,bm)
- MONETHA EASA: BO=B= (Xn+n, Xn+z, --, Xn+m)
- NOMETHA POPELLHOUT ODYHWUNJE UNDA: FO=0

*HEOLIAHMAHA COMMANTE MARO:

· AKO 3A HAY KERSHY MONEHOUBY & BAHU LA JE CE >O U CIO EO, 3A CBAKE I=A..., W , TALA ODYHKUWJA WUKA HEOTPAHWUEHO PACTE LYHH HEOTPAHWUEHO PACTE LYHH BUFFH JEAHKUM PE, 17j. Y CBUH OHUM TAUKAMA X UEMKA

X= X61295

DESTRUTIONEMENT IDISCHMENT MEHERANIBHOT RAPALIEDA & YOU CAYLAJY

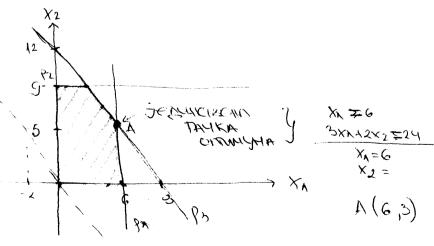


* JENHACTORALO COMMANHO PALICHE:

TENHO DE SA CISARO SE ESCALANDA COSCO TAGA JE GATO OMMUNANO PENNERELLO.

Xx>0 1×2>0

 $5x_{n+1}x_{2} = 3 \quad x_{n} = 2$ $x_{2} = 5$



·HEKA JE CULINAENC METOLA Y COOTOJ NOCKELHOJ K-TOJ VIRPAUNJU LOMINA LO HEKOT BASHOT LONYCIUSOT PELIEBA XL, CA MAKCIMMANHOM BJECHONIO Fr dynkuise una Tj. Cheo ij=n...n.

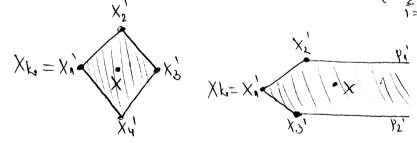
The JE 28 AP HERO SEEN..., n > C = 0, Then HUKAKBO ROBETABE BPENHOUN HEBROUNDHEMORN IS (n > C = 0) You year Cy COE OCTARE HEBROUNDHEMORN IN LINE HUMBER. 3HE APOHEHRUBE JEDHARE HYNN), HE SU APOMEHUND BEDHOOT ONHOW JE GUBA (OCTAMA &U FL). > OCUM X6, 1000000 JOHN ONTHANHUX PE-THE BAY KOJA YUHE JEANY CIPANY ASSYCTUSE SCHACTU. TA CTPANA Œ MOHNE

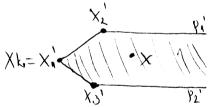
TRUKASATUS - 34 + SE $\{n-n\}$ 3A \times 0JE $\{n-n\}$ 3A $\{n-n\}$ 3B $\{n-n\}$ 3A $\{n-n\}$ 3B $\{n-n\}$ 3B When be (X=XK+ x be) WENCIUBLY RENDA OUTHANK CHAKE TEMEHA ORDINARIHE OPAHE.

NO BENEHIUMO: X', X2', ..., X' -> OBA TELLEHA OMULIANHE CTPAHE

 $- > \times CE \text{ MOTHER UNIVERSELY: } X = \sum_{i=1}^{N} (J_i \times i) + \sum_{i=1}^{N} (J_$ di>0, j=n--n

KKALA JE CIPAHA OTPAHLMEHA: X= S(1;X) S(1;=1





· BNITIE CLEARY OWNHAUMO DETILORE.

* TPASHA DO DYCTUBA OSNACT.

pr pr

anxa+anxx2 & ba & HEMAJY 3AJEAHUURY
OSAACT

*KOHAHHOCT

AKO 3A CBAKO BABHO ADNYCTUBO PRIJEHE XK, k=0,n,..., $r\in Hepuraho$ tokom prijehe cumperica , BAHHU AA JE OHO Hererehe pucaho V. $b_1^k > 0$, i=n,2...m TALA CE BREIGHOCT CD-JE UMBA CTPOTO DOBETIABA Y CBAKOJ UTE PAULJU, DA 3ATO CBA PRIJEHA MOPAJY BUTU PASNUYUTA

и укупан бр блэних Допустивих решень $J \in KOHAHAH \Rightarrow CUMNNEKC THE Кроз коначно много итерација Доти До сптиналнот решена или закњучка Да продлем нема решена (неограничено ст сф- <math>J \in M$ или празна До пуства обласа)

ARO JE CUHNNEKO NPUNCHEH HA EFTEHEPUCAHU NPOSMAM , MOHIE CE AFCUTU AA METOLA Y CHEMETULX HEXONUKO UTEPAUNJA, U NOPEL TOTA MID PAHEPULIKE HORE BASE , CHE BPOHE OCTAHE Y OBOM PELLEHY

NHAJOQU CNYMAJ JEKAL CE MOHHE "BAMABURU" Y LATTERE PUCAHOM TE-HAHY , ILITO OHONOIYTABA BABPILLETAK HETDLE - LYUKNUPAHE (PETKO CE NOJABBYJE Y NPAKKU)

NASSUJEH JE MUTAB HUS TEXHURA 3A OTKARBAHE WIKMUPAHA, A JEZHA OD HUX JE 736. DARLOBO OPABURO \Rightarrow AKO CY CBE ADMENAUSE UPETEHE Y MUS XIXX...., TALA Y CBAKOJ WTEPAWIJU Y EASY YARDU APBA HEERSHA OPOMEHOUBA X5 US OBOT HUSA 3A KOJY JE CÉ > O, A US OBOE USARSU OPBA EASHA OPOMEHOUBA XI, US OBOT HUSA 3A KOJY JE CÉ > O , A KOJY JE Di / Ois = min $\{b, Ois : Ois > OY \Rightarrow DBODOHO JE KOPUCUTU TA CANO Y LETEHE PUCAHUM TBUEHUMA$

*PANYHOKA CNOHHEHOCT {ANTUPUTMAS

TE MODIENTA

PREMIUM CE COMPARA KOJE TPESA PRANCOBATU TOKOM

SABUCU CE COMPARA KOJE TPESA PRANCOBATU TOKOM

JABUCU CE COMPARA ROJETARA NOSTABUA TIJ- AJHUHE LIJUHEHBU
JE MODIENA

NKOA CUMNEKCA: EN. KOPAK-HEKA AMEJAPUKA ONEPAWIJA HAL LIBA PEAHA

ATHUMA MODROM- EP. SUNDBA NOTREJHUX 3A NAMTREBE CBUX HERDBUX YNASHUX HYM. NODATAKA Y BUMAPADH JANUCY (KOEDD. HATPUYE A U BEKTOPA B U C) → AKO 3A CBAKU HUS YNASHUX NOWATAKA NYOKNEMA NDOUSDOOHE LY-HUHE L U 3A HEKU ANTOPUTAN KOJU TA PBUABA, BAHUN DA JE

YKYNAH OP. En. KOPAKA < CP(L) PEANHA OBYHKUNJA

MOSMUBHA XXXXAHTA

TARA CE KAHKE RA ANT. UNA PRYYHCKY CNOHHEHOCT O(E(L))

- WARD f(L) REPORTABINA ROMANIAN TO L ROMANIANIANAMA ANTOPUTAMA, Y
- *KOR CLIUMERCA MOUNTEMENT HA MOCREM MI CA M OTP. U M MOH., LOHIE CE NAKO LOKASATU LA CBAKA UTEPAUNJA SAXTEBA O(mn) APUTM. ONEFAUNJA (TOUTO YK &P. ENSHUX PELLEHA HE MPENASU (M), TALA YK. &P. UTEPAUNJA († MOCREMJE MOTUB UNK MUPAHA) TAKOJE HE NOHE LA MEJE OBAJ ERJ > TOPHA TPAHUNA PANHICKE CHOIHEHOCTU CUMMERCA JE O(mn(m)) EKCHOHEHUNJAMA CHHEHOCT
- -BODHA YCREWHA METOLA ROUMKON, PELLIABAHAA NPAKNUHUX NPODREMA, LIENY JE NOGOBA (DORNHED PODOB) EDWŁACHUX KONN. ULINNEMENTA-UNDA METOLE
- -101. 90-UX -PASOS YHYTPAILLHUX HETOLA KOJE CIHAJY NONUHOHUJA-

-> Управодике случке у Редакции системина се увех доже у содносу на неки пославовени коритеријум и уз поштовање опраничнијутих окактора који у cucery nacroje

->ONWIN OSMUL MATMORENA HEROT PEHINGT NOOSELA CE CACTOJU U3:

- · COTHKANIJE ATHOR: HOTHE CE MOTEUNDA KONIJSKATHA (OTVANIBAHA)
- · O TPAHUYEHA: LODENUPAJY OTP. CHARTOPE CUCTEHA, ODHOCHO MOODD Y KOME CE HOTY TPAHUTU PELLEHA POWENA

> MAT. MOREN NO - MAT. BANUC PEANHOT IPODIEMA Y KOME CY OBYHKULUJA UNIOA

n obthmaps ubstablet vitebling of Atrah July PEANER CUCTER MATCHATURY HOLEN --->doyarunja unika 4UN -->ckyn orpahlinena 19. Dayansu ckyn OPPAHNUABAYON CAKTOPU HAJSONE HONJAE * KOLLEDAJAH: WONGE : MAP. HARC WONDER! AATAN YONDBUMA * Ubribotho albahnneipe: X = - ? X>O *HAT. NOWER = CNUKA PERMON PELLENA D.O. -> MRI OTPHHUYCHUM! (max) f(x) = c, x, +c2x2+ ...+cnxn ODMIN MOREN: XI - YAPABBAYKA AKM. anx + anx xx + ... + anx no by bill Mis, Cs, bi - napamezzu MODENA KOTH CH aznx + azxx+ -- +azn xn (= 4 bz 3ALAM, 1=1,...W C->KOECHNUNJEM Y3 amaxa+auzxx+ ...+amaxa== bm

 $X_1 > 0$ $X_2 > 0$ $X_3 > 0$ dwax yf(x)= Zcixi CAHET OSNUK: Zaijxi (\$ y bi, i = 1,..., w

N... N=1, C < 1X

UDOM. A OR-IN MINOU 1 -> SP DEMETIONER M > gb. OLDAHMACAY WHIPN 974M a -> to exputury frit y3 dingx ltx)-ctx NOOM. Y OIJAHUWEILIMA P. 0.

Ax dilb

- *KOHOTPYUCAHE MATEMATUYKOT MOMENA:

 SKOPEKTHO MOMENUPHHE NOCTUHE: DA MOMEN BYME BANUMHA MEMOTABA MOMENA,

 DA NA JE MONJHE PRIMUNI, LA CE MOMENUPA YHYAAP TROMICBHUK U BYEMEHKKUX

 OTPAHUYEHA U DA CE MOHE EHONKAKHO NYUMEHKUBATU
- →doases
- 1. AEGENHUMIJA MAKEBA YREPARA IPOBNEM KODI HENUNO PRIMIM
- 2. MAHLYAHE UCTPAHLURA-BA-BPENEHCKU MAH, MAHAHAHAHAR ERYARAR U MMAH TROUKOBA: TAMESA: TAMESA: TAMESA: ABOMENDA PECYCUMA U APHABA U ALABOMA AC VHAMBA U AMINDA
- 3. COOPHYNAULTA PROPERA CLESCRIUBAKE ROMANALA U CHEPHUNA 3A PAR; 1-AN MU JE NOTREGIO CERCHICHORAM OPOEN. HA LIHHE; 2- UTOPOEN BAHLE METARO, 3- KRUTERUJALU HA CCH. KOJIK TIE CE MERITUR ECKERNIBHOCI PEILLEHA
- 4. DODMPAKE MORENA- 3 KNACE. NUHEAPHO, HENNHEAPHO, YENDPOJHO
- 6. USOP LETOME PEMERAHA-ORDETURA HE HYMENUTURE PAHANUTURE HA-
- 6. PROTRAMURANTE U TECTUPANE OPORNANHA SEPUGUKANNYA UCMPABNOT MOTRAMA MSOffice, MS Project
- 7. MARYINAHE NOTATARA SA RECTUPANTE OPOTRANA U PAKTUMNY OPUNEHY
- В ВАПИЦАЦИТА ПРОВЕДЕНИЕ СЛАПНЫ РЕЗУПЕТ СА РЕГЛИЦИ СИСТЕМОМ;
- 9. UNINCLEHARINA 10KYMEHTAYNIA, YEOSETSE Y TRUMETYY
 LIBOT OAPHHABAHA DANET

DALOBORUTU POTRESE VOXPAHE KOL RYL, Y3 MUHUMUSAUNITY TROUBLOCA.
TRABAU ULIO TECTE LA CE USLIBOJEHA CPENCTION DA VOXPAHY, YTOUTE HA
HAJODEN HAMUH.

 $minf(x) = \sum_{i=1}^{\infty} c_i x_i$ \rightarrow man pourosa.

 $bi \in SaijXi \in bi$; i=1,...u) OTP BESAHO 3A LIVE HAKE KON.

 $dj \leq \chi_i \leq dj$, $j=n...n \Rightarrow orp. begato 30 kommunty Thouseour <math>\chi_i \leq \chi_i \leq dj$, $j=n...n \Rightarrow orp. begato orphhyere$

G-> WEHA I-TOI NOUSBORA N=> &P-BPCTU NPARBORA

Di, bi -> DOHA (TOPHA TPAHULA KON. XPAHEUBOT CACTOJKA (1-TOF)

aij -> Kon. T-TOT XPAH. CACTOJKA Y J-DJ BPCTU NPOUBBORA mi -> Sp. BPCTU XPAH. CACTOJAKA

AJCSELLEGA TO - NON AJUNHAST ACHOOT ACHOOT (- ID, ID

Droj OTPAHLYMASTO CORD.

·HA YAYNADI NOBPILLUAN TEBA ZACEJATU OLIPETEHU OPOJ KYNTYPA HA OLIPETEHOJ NOBPILLUAN DA OU CE OCTBARMA MARCULLANHA DODT.

P.O. 2GX; -> MAKE RODUTON

 $g_i \in X_j \in g_j$ (j-n-n-) OTP-BEBAHD OF MUH-IMARIC. KON.

ZX; < P -> OTP. BESAHO OF YK. NOBPILLUHY KOJOH

Saijx;

Soijx;

Soij = 1 = 1 ... m -> OFP. BESAHO SA OPOJ PARHUKA

Zrij xj < gil j=1...o -> Orp. BESAHD 3A KANAMINET MANIMHA

Cj -> nputoc/npuxor j-Te kynype N-> 5p. novetkujaniuk kynypa

MORNING HOLINALDONS ABOUT ECON SHIMINGON ANNHAD AHOOM (\overline{g} , \overline{g})

P-> YKYNHA NOBPLLIVHA KUJON PACNONAHIENO

Qi > Sp. PARMIKA notherhow y i-DH nepury 3A J-M KYNDRY

pi -> Axauth &b. batthrer A 1-10th welnown m-> &b. webnoth

FILL Y NOTESHO ALLIAMORANE 1-TOE CHEVERSA Y 1-TOH REPUDEY 3A 1-M

D-> Sp. BYCTA LAWLLA

911-> KANAGLIET 1-TOT CPETCTOSA MEXAHUSPULIE Y 1-TOM REPUENTY

CHM+M +N+NH EANISHUHASTO [COST

bi -> YK OP PACHUKA Y 1-TOH REPUDLY

W-> Ep. nexionA

LIP -> WHERE MILLHISOPHE 1-101 CLEVELBY A 1-10 M WENTER 38 7-13 KANABA 0-> Sp. BYCTU HAWWHA

211-> KARAGUTET 1-TOT CPEACIBA Y I-TOH MEPULLY

P-> Yt. PACONOHIUBA DOPELLUHA

91, 91 -> LOHA INDIDA MAHUUA MORPILLIHE HA DERIJ HUBU KOJY DETA BACEJATU

WikiVik -> DIGH / MAHAMA ABABUMHE HA K-MI INGU XOY PROPA SACEJAN J-WH HATPOH

DROJ OTPARLINENAS UN + WILD 3+ 8+8+ N+S

Chimusavija npouseogyte kputuk CHELLA

20

·MUHUMUSANITA YRYNHUX TRILLIFOBA NRUBBALHE KPMHUX CLIELLA, Y5 NOLLIDBAHE YCNOBA LANX 3A OLIPETRHY NONUYUHY NREUHA, MACN, CHERNIZE, BUTAHUHA....

 $minf(x) = \sum_{j=n}^{n} G\left(\sum_{k=1}^{n} x_{jk}\right) \rightarrow minf(x)$

SXIX=1 1X=1...5 -> OTP. BESAHD 3A MONEHYMANHO YEARLY 5. XPAHUBA Y CHEMIN

≥ 26xil < 2j, j=n... → OTP BESAND SA SANUXE XPAHUBA

MK < XIK < VIK, j=n--N -> OFP-BEBAHD BA HUH. MAKIC. KON. XPAHUBA
WCHIELLY

Ci -> YEHA j-TOX XPAHUBA N-> Ep. RYCM XPAHUBA

2k-> MARHURAHA MOUSBORDA K-TE CHELLE 5-> SP BRILI CLIETLA

XIK-) OROHEHAT J-TOT XPAHUBA Y JEDUHUCH K-TE CHEWE

DIK, DIK -> LOHA TOPHER TRAHUMA YNEWER I-TOT XPAHBURGT CACTOJKA Y

W-> Sp. RYCIU XJAHAUBUX CACROJAKA

aij-> KON. I-TOR XPAHRUBOT CACTOJEA Y J-TOM X PAHUBY

2k -> MAHUPAHEI MOUSBOLHER K-TE CHOWE

Ej-> 3AMUXE j-TOT XPAHUBA

I'k, VIK > MUA MAKC. MACKENDAMO SMERLITE J-TOT XPAHUBA Y K-TY CHALLU

DROJ OTPAHLUYCHAS mISTUUS +3 +N+ MIS

· CLACKLY ACCOUNTABLE KO'N THE COESDELVEN MAKE. YKYNHY ADON'T ON

 $\max f(x) = \sum_{i=1}^{\infty} G(x_i) \rightarrow \lim_{i \to \infty} f(x_i)$

ZOUX; < bi , i=n...m -> OTP BESARD SA KANAUMET MAMUNHA

 $\frac{1}{2}dr_j x_j \leq 0$, $r=n...R \rightarrow 0$ r=n r=n

Z Sty X; < St, k=1... K -> OTP. BESAHO 3A PACTOROHHUBY CUPOBUHY

gi < xj < gi ij=n...n -> ory. Bresho 3A KON. NPOUBBOLA

G-> UDONATHA GEHA J-TOL WOURDSTA (JETHUMHA)

\$j -> KON. j-TE BYCTE MOURDSDAA

A ACBON OF BOOM OF MACEBON OF MORE 98 - 98 - 1

Qi -> BYENE NOTHER TO - TO HALLUHU SK MOUSBORHY TI-TO T NOUSBORA

bi -> YKYNHU KANAGUTET I-TE HAMUHE

di -) Breve notestio 1-104 PARTILLY SA MONSBORTHY WIM. J-701 MONSBORTA

R -> &p. KARETORIJA PAZHUKA

Dr -> PACNONOHUBO YKYNHO BEENE PALHUKA 1-TE KATETOPIJE

Skj-> Kon. k-Te cuposute nonpethe sa uspacy kon.j-Tor npousbora

56 -> PACOCONOTHUBA DONUMUHA K-TE BYCTE HATEPUIJANA

6- Sp. BPCRI HARRIJANA

9: , 9: -> DOHA U MAHAGE RAHULA KONUMUHE REPORDED (1-TOF)

· TAKBO UCKQUIMTEBE MATERIJANA LA TYBUTAR EYLE MUHUMAAAH IJ.

minf(x) = 5 = GvXjv -> hutt. OTTAMARA

po.

Z Xjv < Zv , V=n ... 5 -> OTP. BEJAHO 30 DANIXE HARPYJANA

SE ajjv Xjv = bi, i=n... -> CTP-BESAHO SA OSESSEGHBAHE YKYNHE V=n j=n

CEXIVE GIV, j=n...n _> OFF. BEBAHO 3A MARC. XON. LIATERIJANA

GV -> KON. OTNALAKA MAT. V-TE DUNCHBUJE KAAA JE UCKPJEH AD J-70J BAPUJAHTU JUCHBULI ST-V MARTURAS [CA-[CA HSCOHOW MUB SIT UCCH TAM . NON C VIX

5-> 8p. BPCTA MAT. OD KOT CE CERY DENORM (DUMERSUJE)

N -> EP HAMUHA KPOJEHA MATERIJANA (BARGIAHTE)

m > Op. Bycom Denoise Kon ce Hoppingy Down

ZV -> YK, KON BAMXA V-70 BPCTO HATCHLY AND OD KOJUX Œ CŒY DENOBU

(1) -> &- LENDRA 1-707 TUNA KOJU CE LOGIJAJY OR MAT. V-TE DUHEHBUJE KADA JE LICKPOJEH NO J-NOJ BAPUJAHAM

bi -> yn.ton. Denoba i-70: MA KOTTREGA alesterum Kpojethen

Gir -> MAKIC. KON. HARPLIJANA V-R IMMEHBYRE KOJA MOHR BUTU UCKPOJEHA
NO j-DJ BACLIGAR CHOLOGO

DROJ CTRAHLYENDA'S SHULL (U+S).2

· MAHUPAHE MOUSEDLIKE Y BABUCHOON ON INTROA THHUMTA, KAKO ON TRO-MIKSBU CKARDULITEHA EVAN MUHUWAAHU.

min $f(x) = \sum_{v=n}^{\infty} \sum_{k=n}^{\infty} C_{jk} \left[\sum_{v=n}^{\infty} (x_{jv} - p_{jv}) \right] \rightarrow \text{MUH. TRANKOOD CKARDALINGHADA.}$

 $\underset{V=n}{\overset{k}{\sim}} (x_{iv} - p_{iv}) > 0$ $\underset{i=1...n}{\overset{k}{\sim}} \longrightarrow 0$ OF BESAHO SA HEMORYTHACT NORDJAHA

HETARUSHUK SARVUKA

 $\sum_{j=1}^{N} a_{ij} X_{jk} \leq b_{ik} \quad j=1...m \rightarrow a_{i} \Rightarrow a_{i}$

Xik>0 j=n...n -> npupotho orpathmense

 $Gk \to TDUKDBU CKNADULINETHA J-TOT NPOLIBORA Y K-TOH BYEMEHCKOM NEPUOLY <math>N \to \delta p$. BYCTU NPOUBBORA $S \to \delta p$. GERHARUX BYEMEHCKOM NEPUOLY

MY AR MERU LI AJORENAN 107-1, NON C-VIX

Din -> NODATHHA 34 J-MM NAMBOROM Y V-10H BP. NOPULLY

CHATTANXON YOU NEWPON UNTERHOT (-)

CHATMINATURE CHATMINAND

aij -> sperie norpetho 1-Toj MALLIUHU ZA njous BORTHY 1-70- npou 31801 A

M -> &p. open HALLUHA

Yjkr-> KON. J-TOT MYDUSKOMA KOJA TRESA DA CE NPOUSBERRE Y K-DM BP.
MERUODY

Dik -> KANAULITET HALLINHE I-TE Y K-TOH BY MQUOLY

BRIJ OTRHHUYETDA, & N+S+ M+S+N+S

· JAPYHUBABE HEKONUKO MPERYJETIA U YCKNATYIBABE MPOMPANA MPONBERABE

 $\max_{k=0}^{\infty} f(x) = \sum_{k=0}^{\infty} C_j k \cdot X_j k \longrightarrow \max_{k=0}^{\infty} C_j k \cdot X_j k \longrightarrow \max_{k=0}^{\infty} C_j k \cdot X_j k$

ZOjik Xjk & Olik, i=n...m -> OFP. REJAHO JA PACHONOHUNDO CT

SE DIEVXIE & Du , V=1...s -> OTP. BEBAHD 3A YK. PACHONOHIUBY KON. MATERUJANA

 $\sum_{k=n}^{p} Xjk \leq Cj$, $j=n...n \rightarrow TPHMWHO OPPAHMYEDE$

TXILESO, j=x...n -> npupatos orpathumetre

GK -> TROLATHA VEHA J-DI NOUSBURA Y W-TOH NERYXETY

N -> SP BPCM NEWSBURA W W-TOH NERYXETY

M -> SP BPCM NEWSBURA

M -> SP BPCM MANIMUMA

P -> 8p. Meryatra

aik -> packon there i-noj hallum 30 uzpary jour mouseary k-non merysty.

aik -> packon huby kanalunet i-te hallum y k-non merysety

Diku \rightarrow KON. V-TOT MATERIANA NORESHOT 36 USPACY J-TOT NPOUSBORM Y KU-TOH NPERYSHAM S \leftarrow C PORRYSHAM ANA CHARMAIANA

ANEWSTAN TOE'V AHUNNA ABUHANONDAG - VO

Cj -> YKYMA KOMMHA J-DOT MONDROLA KOĴA CE MOHIE MROZAM HA TPHINLINY

EROS OFRHHUYELDES MID SABPLUHARTO CORD.

· Y CAYTAJY KALLA PARHA CHARA, CUIDOBUHE U MATERIJAN HUCY OPPAHUYEHU, LOHE CE NOJABUTU ONTUHANHO UCTORIMDEHE KANAYUTETA MAMUNHA. POPEL OPPAHUYEHA UHBECTUULIOHUX CPELCTABA, WHE CE NOJABUTU U ODAKTOP OPPAHUYEHA NPOLOGIA. MOHE CE YBECTU UBECTAH SKOJ MAMUUHA 3A PAA, 140JE CY ULBHRIYHE UNU CNITHE CA NOCOJETUM MAMUHAMA.

$$max f(x,y) = \sum_{j=1}^{n} c_j x_j - \sum_{i=1}^{n} g_i y_i$$
 $\rightarrow MAKC. ADDUTATION P.O.$

$$\sum_{i=n}^{\infty} Q_{ij}X_{j} \leq b_{i} + y_{i} \cdot z_{i} \rightarrow OTP \cdot BESAHD 3A KANAULITET HALLIME$$

$$\sum_{i=n}^{\infty} Z_{i} \cdot y_{i} \leq \overline{Z} \rightarrow OTP \cdot BESAHD 3A YK \cdot BYPET 3A HABABKY$$

$$MAULINHA$$

CJ -> YEHA J-TOT MOUSBORD (JENNHUYHA)

AJESENCEU MONSENCEU ! U -> EDERCEU MONSENCEU IX

9; -> ALOPTUSALUJA, TROLLIAU SE HAGABRY 1-TE BYCTE ALLIUHE

 $y_i \to \delta p$. i-te byete halling kojy treba exymutu; $m \to \delta p$. byetu halling a form byeth for-i orbitally as inspected as impulsed for i-to-i orbitally as inspected for i-to-i orbitally as inspected for i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i-to-i

bi -> YK'KANAYLIET I-TE HALLINGE

JETHE) IN KAUDANIEL 1-LE MAMME KOJA DERMIN : (51-KAUDANIEL)

Zi -> HAS WELL I-LE PLOSE MARTINHE ! F-> AXAVER PAREL

Рі > повримня попребня за і-гу дсту нашине; Р-гую, повримня

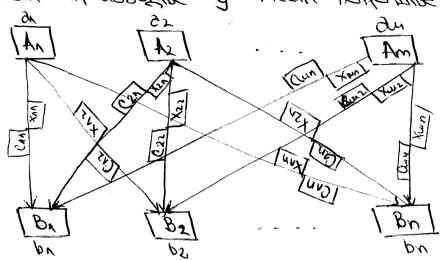
 $di, di \rightarrow ADHAN N COPHA TPAHUNA KON. NONSBORA$

DROS OPPARAMENDS M+ N+ N+ N+ MARGELLA

BATBOPEHU U OTBOPEHU TO



MECH UBARBOTHE A VECLU UNTHE UBARBOTH BUT BOYE NO



An. Bn -> Cij -> TROUMAN CA i-NOT UCX.

LO J-POT CAP.

AG J-PT CAP.

NIFACBTAED

UDILBOTHIPE: SOUTHING UBONDESTARE JETHARING SE AKAULICA LOUNANTHA

-MUHUHUSAULIA TPOLIKOBA APUNUKOH TPAHCAOPTA

P.O. $Z \times ij = 0$; $i = n - u \rightarrow 0$ $P \cdot B \cdot SAHD OF DESAHD OF TRAHEY

<math>Z \times ij = b$; $i = n - u \rightarrow 0$ $P \cdot B \cdot SAHD OF TRAHEY

<math>Z \times ij = b$; i = n - u, i = n - u

-> Sp. OCPAHUYERFT: M+N+NPURDENTA

-> Sp. HENDSHAWX: M.n

-> & ENSHUX: M+U-V (ARDWKD NX JE MYRE-> TELEHEBRAHO)

* Otropethi
THOUSENAM SETA OF HOLDONINE SO! > SPI
The mome ce transcriptory were very posa. To occupe posa wing $(x) = \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^$
Yi >0, 1=n
-ONGARDA CE A BESEDOE ROJE OCCUPATA
-OTROPEHU TO CE NOHE CRECTU HA BATROPEH YROJEBEM LONYHUKE $b_{n+n} = \sum_{i=n}^{\infty} O_i - \sum_{i=n}^{\infty} b_i^i$ $b_{n+n} = \sum_{i=n}^{\infty} O_i - \sum_{i=n}^{\infty} b_i^i$
- WEHA TRAHCHOPTA JE JEMARIA HYNN (HE TRAHCHOPTY)E CE HULLIFA!)
DESTINATION TO HAHAM THE COSCULANCE SOUTH STATES
- MOTREDE HUCY Y NOTHWOON Y LISTEN - NOTHWOOD Y
Muf(x) = \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
J=\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
Exi & bi ij=nu
χ; >> , i=Λω, j=Λω
-yesterbe dukinient uchanimin Amin union de nonyan:
Cluma = Zbi - Zai

-4844 TPAHCOPTA JENHARA HYMU

METOME 3A CAPETURANE NOVETHOR EASHOR



TIMETORA "CEBEPO SAVARYDI YTAA" (ANJAIDHANHA METORA)

- Showthe apprishable pactorety our Lyth widenower kota ce kpetre of tophet resor your tj. now (1,1) takene, na to tower techor your tj. nown (m,n) takene
- THE YOURS Y OBOUR BREIGHOOTH OF THE CHATPA HATTELHOOTABHUTUN

2 METOLA HAJLIABET EN. Y LIFTPULL LIENA TRAHCIOPTA:

- -> SASWYHE OPONEMBRE PACOSEDYJENO HA DOWN CH HAJMABUN BJE-
- -> METOLE 3ACHOBAHE HA NOOD ULLEJU: H. HAJLIABET EN. Y BOTU U M. HAJLIABET EN. Y KONDHU LIATPULLE UPLA

3 DOLEVORY AUDOKUMALINEHU HELDYU!

> NODDAY A HOTAGARE HYDRING BOLEODE HELDTE HYDRALL ROLDAN OF THE BOLDA COULD HOLD IN TODOCH HOLD AND HOLDAN HOLDAN POSTUL BOLDAN HOLDAN HOLDAN HOLDAN POSTUL BOLDAN HOLDAN HOLDAN

MARANTO SHEWITTO, IT JATALAE WHATHE

& TIPVILL AN

- YKYNAH & HENDSHETW: MN

- AKAUAH 85. OLLUMARIPU: WAN + WONDERHY

$$X = b$$
, $J = \lambda \dots n$

- CHAKA XI CE Y CLICTELLY OFFAHLIVEHA PRIMARA JABBA 2 NYTA -> OTP EYARA THE CE CACRITAN US 2 CABUPRA CA NO JEMBH LYANTOM MPOH. WI IN VI CA KOESPULLIJEHROM N

* MAAN

-YKYNAH SP.41000HANX UI W VI = MAN -AxAUAH Eb. OLBAHMMERPH: W.U

THURMAND I'V I'V A, ALAMUN MOCHAGY SINAMINO UX W CXA-BRETHER LYANA, TARA, (Cij-(U+V))=01>

: CHARLAUTTO IX IT UN AL AGRICYIT-

TPAHCOOPTHU BARAYU CA OTPAHUVEHUM MONYCHUH COCOSHOCTUMA

-> LOCIOZE ADIAHCKU OLIBUHANENDU 34 KOVIANAA LIBUHCISALDERHE POSE

min f(x) = 2 2 Cij Xij

2.0.7 Xij=Qi, j=1... M → OF. BEDARD 3A TOHYEY Xij=Dj ij=1... N → OFP. BEDARD 3A TPAMIDY

O & Xij & dij ; i=n..w, j=n..n > OTP. BEBAND SA OTPAHNYENE NDCHEODAND SHOWNOOD

XII-> KON-BOSE US I-DOL MOXOVAMILLE À I-LO OFFEVAITRE CII -> JEINHNYAN TPOMIKOBU OR I-10 MXOLUMA 20 J-10 OLDED.

1) -> Eb-orhernames p? -> KOV. A MCKOVAITHLA?

dij -> orpahnnebe pose imporkatha JE IN BYZY uchyhetha chemetha

Z dij≥bi ij=n...n

MUHUMUSAUNIA BREMEHA TAHKTOPTA 30

-> LIBANUTET OPTAHUSANUJE TPAHETICPTA MEPU CE YTPONNEHUN BRONCHON

Win t(x) = wax étij | xij > 0, i=n...m, j=n...n}

ZXij < Q; , i=n...m -> Orp. BEDAHD 3A NOHYAY

X: >, 0 , = 1... u , j= n...n

→ MUHUMUSAUTIA MAKE BREMEHA US CKYNA BREMEHA ŁÚ

±ij → BREME YTPOLIJEAD HA TRAKTOPT US 1-707 UCKORMINA Y
1-70 ORJEKULITE

a; -> kon. pose y i-ton ucromulity

DI -> TPAMBA Y I-RM EXPERIMITY

Xij -> KON POSE US I-NOT UCKCINIMITA Y J-70 OAPERYIMTE

PAHCHOPT MPOUS BOLLHE



AUSCO TPAHCTOPTHUX CPELCTABA 3A PEANUSAULTY TPAHCTOPTA CLIP. BYCTE POSE HA TOJELUHUH PENAUNJAMA CPELCTBO WE OL TAPA HIE LO UCKOLULUTA, OL UCKOLULUTA LO CAPENULUTA LU BATUM DOHOBO LO TAPAHIE.

min
$$f(x) = \sum_{i=1}^{m} \sum_{j=1}^{n} \sum_{k=1}^{s} \left(dik + p_i k + t_i k \right) \cdot x_i j k$$
 -> MUH TPOILL KOBA

TPAHCADPTA

$$\sum_{i=1}^{n} \sum_{k=1}^{s} 2k \times jk \le 0$$
, $i=n-m \rightarrow 0$ TP. BESAHO SA KON. POSE KOJA TIE JEN $k=1$ VE TPAHENO PIDBATH US UCKONULITA

$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}$

$$\frac{2}{2}$$
 Xijk ≤ 9 k, $k=n-s \rightarrow 0$ TP. BEJAHO JA YKYNAH OPOJ
TPAHEN. CPENETABA

dik -> TPOWKOBU K-TOT NEB-CPERCIBA Y 1-TO WCXDANWITE (US TAPAME)

PIK -> TPOWKOBU L-TOT NEB-CPERCIBA US j-TOT CAREAWATA (Y TAPAMY) Eik -> TPOWKOBU L-TOT NEB-CPEACIBA US j-TOT WCXDANWITA Y j=00 CAPEA.

W-> Sp. TUDOBA USODULITA MAS & TUDOBA ODES TUTORA THAT CHENCT.

XIL > & P. MEDSHUX CPETCIABA K-TOT TUDA US DESCRIBE I Y OFFICIALE I

2h -> KAMMUNET &-TOT NPERSONO CPENTISA

ai -> notyra i-Tor uexomuma

ATLINASYAO TOTI ANHHAGT (- id

gh -> yk Sp. CHENCTAGA L-TO-TUNA

AMUDABUMA HUMPUNGAS AS TANSEGIN WHELTERLY CHAMN CHUNCAL & TPESA USASPATU PACOPED BYDU TAKO DA CE MAKOUMUSUPA YEREWHOCT throson chasters atmustación.

Xij=1 -> UBBPWWARU JE UBASPAH Xij=0 -> USBYLLIUNAY HUJE USASPAH

Max f(x)= 22 Cixi -> MAKE. KOPUCHOETH

c.q

 $\sum_{i=1}^{N} X_{ij} = 1$, j=1...n $\rightarrow OPP. BESAHO BA TO AA CEARU UBBPLLIUM BAN COHAU JELLHOU JELHOU HANDOMENNISHA$

EXII = 1 11=1... N -> HA JELLOJ AKMURODOM NOHE PALLIM WANDLINGEN HALLOJ CHAD

minal, cxiX

NAKO JE EP. UBBPILLURALA BETU OA EP. AKTUBHOCKU:

2Xi = 1, 1=1....

Cij -> Educatioa i-101 UBBPLIIUOYA HA j-101 AKTUBHOCTU

N-> Sp. AKINGHOCTU

M->Sp. UBBPWUAAGA

M ENABALLEY AS ALTRYCTHA MURGON WHEOHD

27

* Kopaus

- 1. WHUNDAMADA HEVAHERE ROMENOS EASHE ACTUROR REMINERA
- SUMIDY CONTINUED ONE AD THE WAS ADDONG NIDCHMANNINO DIT. S. TECHNAMINTIO DIT. S.
- 3. HAMAHODE "BONG" DASHON DELIGHA HARIN CYCEMAD SASHO DONGCOMBO PETER. HARA U YCODJUM KAO TERYTE;

* COSMES

- 1. HESABUCHOCT OFFAHLIYEHA BATBOJEH TO ULLA MAN OFFAHLIYEHA;

 JEMO JE MUHDAPHO BABUCHO CA OCHANUX

 TE NOCOCH MAN-1 NUH. HEBABUCHUX OFP.;

 MAN-1 -> PAHT MATTRICE OFP. U EPOJ

 BASHUX NPOMEHAUBUX
- S. (NOSOVAM AVAHORN MENDED)HA DEMTHERE MENDED)HO
- 3. MODI METORA CE BACHUBA HA AYANHOCTU ; CNYHHU JA MPOBERY COM-MANHOCTU ; CNYHHU JA MPOBERY COM-

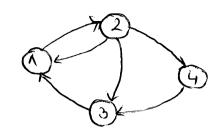
MEDONHUMIJE PARODA U MPEHE U BROTE TRADOA

> rpnds te dogmanah, croectrah anat marenmukor melennyahan; Benuku op. peanhiux chicrema ce mory melenupam romoty rpadoa

-> TRAD JE YEBEH NAP (V,E) THE CY:

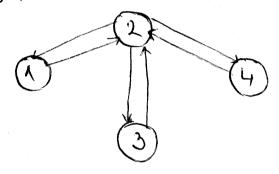
V-CKYN YBOPORA (V=d1,2,..., IVI)

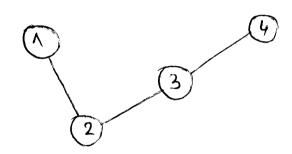
E C d(i,j) | i,jev } - CKYN TRAHA



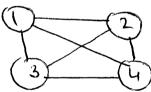
 \Rightarrow 1ko 3A HEKU TPADO G=(V,E), 3A COAKY TPAHY (iii) \in E BAHM LA MOCRÓJU U TPAHLA (jii) \in E TALLA CE TALLOU TPADOU 306Y HEYCLIEFEHU. CKYN TPAHLA: \in C \in [iii] I i \in V je V je

→ У супротном су усмерени.





> 3A TRACO G=(V,E) CE KAHE IN JE NOTNYH AND 3A COARD WEV,



*NOBESAH TPASO

THEY CHERT TRAD IF ROBESAH AKO SA CBARIA ABO HADA I LIEV HOOGH

TOURDEN TRACT JE NOBESAH AND 3A CRAINA THAN ABOUT 1 JEN WOODM

-> Y ONYMAJY AA HUJE NOBROAH 13A MADO KAHHEND AA JE HENOBEBAH.

THELHOCTU, OH CE HABUBA TEHINHCKU THAD. NOBEBAH TEHINHCKU TPAGO CE HABUBA UPEHA.

TECONHUNIE CLEUGHA ARODA NUDECEKU CANTON



-> AND MOCROJU TRAHA C=(i,j) EE YCLIEPAHOT TRAHA G=(V,E)

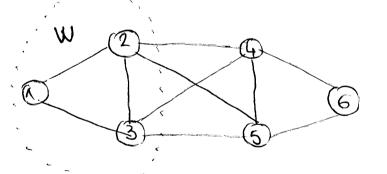
- · SPOJ PAHA KOJE BABYLLIABAJY Y HERON UBOPY I DOGE CE YNABHIN CTETIAL UBOPA I
- · ERDJ FRAM KOJE MONASE US HEXDT YBOPA I SOESE CE USARBALL CTENEH YBOPA I.

AKO NOODOU TPAHA E= JUJIEE HEYCHEPEHOT TPAKA G=(V,E), TARA KAHRAD: • 4800 I U TPAHA E CY UHULEHTHU AKO I EE

- · LIDE TRAVE E: " EZ CY CYCENTE AKO CY LIHUYTENTHE CA LICTUM
- · SPOJ TRAHA KOJE CY UNDNEHTANE HEKON YBOPY I BOBE CE CTEMEN YBORA I.

 \rightarrow 34 HEYCHEPRA TRAYS G=(V,E) U SALATU NOLCKYN UROGOBA $W \in V$, Specer track $\delta(W)$ JE NOLCKYN TRANK IA UM JORAH UROP NOUNALA CKYNY W, a LAYKU CKYNY VW TJ.

E(W) = ddisgeEliew, jevwy



8(14) = { {2,4}, {2,5}, {3,4}, {3,5}}

TEGORIHUMIZE CLEUGHA AROBY NUBECEKU LANGER



-> AND MOCROJU TRAHA C=(i,j) EE YCLIEPENDT TRACKA G=(V,E)

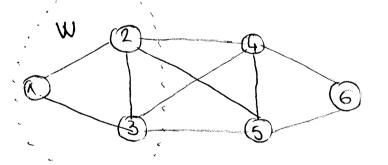
- · CPOJ PAHA KOJE SABYLLIABAJY Y HERON UBOPY I SOUR CE YNASHIN CTETICH UBOPA I
- · SPOJ PPAHA KOJE PONASE US HEXOT YBOPA I SORSE CE USABAHU CTENEH UBOPA I.

AKO NOCODU TPAHA E= JÜJEE HEYCHEPEHOT TPAHA G=(V,E), TAIA

- · LDE PARKE E, N E2 CY CYCENTRE AKO CY CHUNTERTHE CA NOTH
- · SPOJ TPAHA KOJE CY UNDULLENTAR HEROY YBOPY I BOBE CE CTEMEN YBOPA I.

 \rightarrow 3A HEYCHEPAH TRAYO G=(V,E) U SALATU NOWCKYN UROYDBA W C V , SDECER TRACKA $\delta(W)$ JE NOLCKYN TRAUK AM UM JORAH UROP NDUNALA CKYNY W , a LAYKU CKYNY V/W TJ.

E(W) = ddiigeEliew, jevwy



8(14) = { {2,4}, {2,5}, {3,4}, {3,5}}

TYT, ENEWSATAPHU MYT U ZYHINHA MYTA

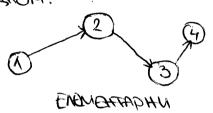


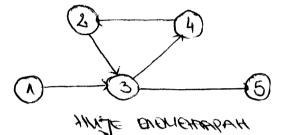
> The ushety are salare upope on t, s, tel JE Hus TPAHA ON King BAHM: • MYOR MARIN WO WERD S

- · CBAKA CN. TPAHA CHEEN NEXOLHY TPAHY
- · nocreams thank substituted a result of

"Trump: ((5,1),(1,4),(4,8),(8,6)) +j. 5,1,4,8,7

-> ENCHIPATADAM MUT JE CHAJ KOJU KIPOS COE UROPONOSE MPONASM HAJOMILIE JEAHOM.





DENDATAM: 5 = ((€'!')' (!"'!)) = 30167 WHINHA LAHA KOK LOH UNA

 $L(P) = \sum_{P \in P} CP \qquad \underline{L}_{YHUHA}$

CINSNO, PASATULLYTHE CITERO U AYHIMHA CAENA

(37

TEPAHU: • TRACE G HE CARPINA HA JEANY KCHTUPY OF

* TPAD G CARPHY WHAT WITHATO

· TRAGE CT JE NOVESAH

NOCOSUHE: A ROLABAHOON TRAHE Y CARDO LOSIJA CE KOHTYPA

DORTH HAGSGABH 32 FIRGE SHAFT HERFORALL .

A USMETY COPKIA 2 YBOPA NOCKY TAMBO JEDAH EN NYT

MANNE STORY TRACE CENTED TO CKUP BOCKETH FRINCHAM,

-> PASAMURANTE CIASMO, TRACTA G=(V,E) JE NOATPACK TOT TRACTA KOTU CAERHU COE UBORDE V TOT TRACTA U CAERO JE. HE CAAPHU HU FELHY KONTYPY. EROJ TRACHA: N-N TER JE $N=|V|-\delta POJ$ UBORDEN

V S = (V, E') je pasanuhyte chaso rpadba G = (V, E) ako u cano ako $E' \subseteq E$ u S je chaso.

> MYHINHA (TEHINHA) JE JEAHALA EURY SYHINHA TAHA KÜF TOM CAENY DANDALADY.

5= (V,E')

L(5) = & CL

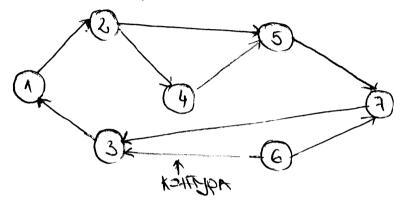
KOHURA, XAMUNOHORA KOHURA V EYHNUHA



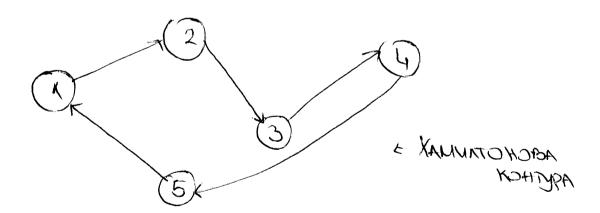
→ KOHTYPA JE CROWENTEPHU NYT *OJU NOJUNE U BARPILLABA Y UCTOM (3,4,2,6) - KOHTYPA

*(5)

-> XAMMITOHORD KOHTYPA. JE KONTYPA KOJA NPONASU KROS COE YBOPOBE HEKOT SALARDE TYRCKA.



KANYKA Ubanava is soubh TAMMA LOUR SELLON



HAJKARTU MY - MOREN N CNOHHEHOS PEILLABAINA

- LAT JE TRAJO G=(V,E) U TRAHANA CY TRUE, PYHEHE BYELLINGU Ci, (ii) EE

ESCECULA XULTURE FRANCIA DE VITARIA DE CHEZILION-Sut, siteV

THATELY THE TEN TEN THATEH

~Xij=1 -> [patha / nparaja nyry (Hijkpatien) $(i,j) \in E$ Xij = 0 -> TPAHA, HE NOUNALA HAJKAATRU NUTY

-ON MALLEBECT CA CAMO EVENDALLABAM UNLEBA

wim f(x)= (i) = (i) => MUHUMUSAUUJA YKYNHE LYHIUHE NYTA

 $\sum_{j:(i,j)\in E} X_{ij} = \begin{cases} 1 & 1=s \\ 0 & i \neq s \\ -1 & i = t \end{cases}$ ieV

Xijedo, Ny, (i,j) EE

-OTPAHLUEBE WHA 3 NOTYTHA CROSOLULA MANIA:

O OSENSETYTE CE DA MYT DOYUNE Y S (1)

(11) TY CE WILL STOPPING A LE (C)

+OBAJ MOGNELL UMA EKCHOHENLYJANNY CACHETROS.

MUHUMHAMA PASADUMYTHE CHORALMHAM U CROHLEHDOO PELLIFABAHAA

-> HANA HADE OFOR PASADURATES CHEVA TRADA G UNITA JE

- LATA JE HEYCMEPEHA MPEHA G=(V,E) U RHIMHE TPAHA Gi, $(i,j) \in E$ V Gi=Gi

NXI = 1 -> TPAHA (ij) NOUVARA DOCTARNY (ij) EE

N A(s) - CKYN TRAHA NOW, GARDAR S TRAJAN (1=(U,E) ORDEROR CKYNDH SEV, TJ. A(s) JE CKYN TRAHA MIJA CEA UBORA NOW, ARANGES.

win.P(x)- Z Cij Xij -> MUH. YK. TEHHUHE PASAMHYTER CAGNA PO.

Sign in any constraint and the second of the properties of N

ZX; < 151-1, HS EV

diabeA(6):

> CORPENADAJY NOJABNUBAHE WUKNYCH

Xi; E do,ny, (i,j) E

CABNO

CAB

→ BPO-J OFFRHUNGHA ENGINHEHUNJANHO PACTE CA NOPACTON ERIJA 480/2069 . 3270 CE MUH. P. CABNO CARETYJE NOWSKY OIF ANTOPUTAMA: NowHOB, KPACKANOB, BOPYBKUH...

- ANNHTRY PONDERVER HADDOGEAN

- 41
- → 3ALAT JE KONINETAH TRADO G=(V,E); (i,j) EE → CBAKOJ TRAHU JE TRADODBCKA UHTEPIDETALUJA: → CEDERUTU XANUNTOHORY KOHTUPY Y 3ALATOM TRADOY KOJA UHA HAJUAHY EYHMHY.
- *TEPRUHU: NKOHTYPA JE EN-NYT KÖJU NOMBE U BABPILLABA CE Y UCTOH YROPY.
 - · XALULATOHOBA KOHAPA JE KOHAPA KOJA NDABOL KIPOS CHE 480 PORE BALATOT PRACE; OPOJ X. KOHAPA Y NORNY-HOH PRACOY JE (N-N)!/2
 - NAMUNTOHOS PACE JE PACE Y KOME DOODJU X KONTYA. NOTNYH TRACE G=(U,E): AKO BA CBAKO 1,jEV ME JE 17, DOODJU TRAHA (1,j) EE.
- ANROGNEM JE 34760PEH. MYTHUR MORA BA CE ROATU Y TRAD US
- TO SAEM JE CULLETYWAH HEHA NYTA OR TRADA I DO TRADA J JE
- > LA MU JE TYPAS XAMUNTOHOB: HELETEPHUHUCTUYKU HONUHOHHU
 TIPOÉNEMI: AMORTHU CY YTNABHOM LETEPHUHUCTUYKU, AMU BA OKE MOONBE
- MOSNEY: ANTOPUTUU CY YTARDHON LEFERMUMUCTUTUU, AND BE MODIBLE TE MOTOJU ANT. KOJU TAPAHTYJE DA TIE POLIDERE OUTU HAJOHO Y MONINGHOUN BRENEMY
 - SA MOSHATO PELLENE JE Y MONUHONYJANHON BPENETY MONTRE

1/podnew topobankor nythinkA-MATEMATMAKU MOMEN

· TPTOBENEUR NYTHUK TPEDA LA OÙIJE N TPERSOBA HATU PERSONER · OSUNACKIA TAKO LA TPOILIKOBU DYTA ÓYRY HUHUMANHM.

NTUPA - BATTOOPEH MYT KOJY OSYNASY COE FRANCE; EP PASKUYUNX TYPA JE (n-n) 1/2

wint(x) = ZCjxj -> MUH DYTA

¿EXij= n, HjeV

IEV ID JENHA TPAHA BABPILLABA Y CBAROM ZXIJ= N, TIEV CBAROT YBOPA

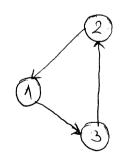
CBAROT YBOPA

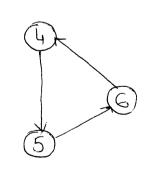
- Xii E QOINJ - WHINK ATO AL AL GOTANANO (ij) OPUTANA POR GOTANANO (iji) AHAGT NA AL GOTANANO (iji) OPUTANA POR GOTANANO (iji) OPUTANANO (iji) OPUTANO (iji) OPUTA

+1214740 OTPAHUYETRE SA VISCETABAKE NCLTYPA TJ. OSESSEJNBAKE AA KOHYPA BYLE XALUNTOHOBA:

1 DAHWHT CHAREPROH HOHOH (AGG) &

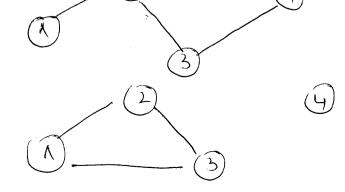
 $\leq x_{ij} \leq |S| - 1$, $\#SCV | 2 \leq |S| \leq \frac{N}{2}$





3A S = {1,2,5} CV x2n+xn3+x32+ .. ≤ 2. 8

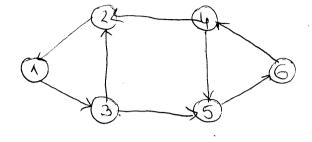
* n= W - Spaj ybaposa



11 Minep TAKER January (MT3)8

U; -U; + n.x; ≤ n-n., ∀(ij) ∈ E, i,j + n

· U. - nonothe monthemange, somewhere CBA KON YPOPY (COULH INDON) N



3A i,j e d 4,5,6 y

Uy-U5 + n. Xy5 < n-n

U5-U6 + n. X56 < n-n

U6-U4 + n. X64 < n-n

3n < 3.(n-n)

ACULARDA PYTUPANDA - PARTOCICA LHAZIDETALLUDA



-> MPBU MYT CY TA MOCTABUNU LAHWHT U PAMCEP, A YCABPLLIMM T).

ALKOH VELOCA (BOSING CE LOCIOSELL MISHE VALEDA)

TPAHCODPTHU TOWKOBU BYLY MUHUHANHU (BOSUNA, TOPUBA, POSAM,...)

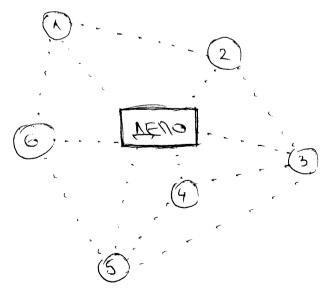
> MYTHA HIPOHA XOJA CE KOPUCIU BA TYAHCOOPT POSE COUCAHA JE DONOTY TPADASTPAHE CY NYTEBY, A UBORBU KOPUCHUGU W MENCU

-> TRAKE MORY EUR YCHEPEHE U HEYCHEPEHE (OP. JENHOCHEPHA

-> CBAKOJ TPAHU CE NPULPYHYJY TPOMKOBU U BPAJEJ BABUCU QL

-> 2 YEORA CE NOBEBYJY TRAHAMA AKO CE SUPEKTHO MOILLE CTUTULI UB JESHOR Y ARTU

-> YCMEPETE TPATE OF OPERCIAISMAN CIDEMMANA, A HEYCMONTE MUHUJAMA





/ lagren ballabyper - MALEMALINARM MOTEU

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→ YKONUKO NOCTOJU OTPAHUMENE KANAUNTETA BOSUNA, TALA JE TO NOESNEM PYTUPANA CA OTPAHUMENUM KANAUNTETOM

+ WETHOWN SK BEITTABAME WONENAS

1. TYPE MORATY YEARLY MUTU COSE MOROPORE KOPUCHUNDA

2. CBARN YBOY CE MOHIE DOLETHIM CAND JEHOM

3. CBAKA TYPA HOPA NOVERU U BABPILLUM CE Y LENOY

win f(x)= (Zei; Xi)

D.O.

EXIJ= N, HIEC JCANO JEDHA TPAHA YNAZU U
EXIJ= N, HIEC JCHMO JEDHA WONAZU WO YBOPA

ui-ui + Gxii = G-gi*, H(i,j) EE. i,jec

Xij E doing, th (i,j) EE

(i,j) Xjj=1 -> TPAHATYGKIBYYEHA Y PYTY

XI = 0 -> TPAHA (ii) HUTE YKKYYTHA Y PUTY

G=(V,E), V=d0,1,2,...,ny -> KOMINETAH TPAD; V=0-> TEMO

C= V/doy - CKYN YBOXOBA BES BENCH

Cii - LYHIMHA TEHINHA TPAHE (iii) EE

9; - MOTPAHHAA YBOPA i

AMED TOWNAME WALAE - B

U; - YKYDHA DOTPAHIDA CRUX KOPUCHUKA KOJU CE HANAJE HA NCTOJ TYPU 10 KOPUCHUKA I

* CLEDEDAJE BUMUHAMAJA WONKOHNYPA KOJE HE CARPHE DENO

· ACHERUMAGICAN TONECOGONSU MUSABOATT

45

Offponing pacopetyisation (ACUTHAGUTE) NACOPRELITY OF BYEN HA OF DOCADION, COAKOT HA OD JERAH TOGAD, TAKO LA OPRZYKINIODOT SYRE HAJBETAR.

Dygodu medoshadi

NTPAKCIOPT POSE US ORSETANIX CKINATUILITA (UCXORUILITA) AS CRESTANIX KINANA (ORSELVILITA) TAKO LA OH SYLE HAJEKSHOMUNHUJU (YUTELA HOSMA WIN BRENEHA.).

@ boover Iblosonkol Untimers

TAKO LA TPOMIKOBU EYRY MUNUMANHU. (UNU BRENCE)

@ DROWEN PAHLA

 $Xj - \delta p \cdot UCTPAHUBAHA HA J-DON OPENY, J=1...O$ $UCX \cdot P(X) = \underset{i=1}{\overset{\circ}{\sum}} GX_i \longrightarrow MAGC *SPUCHDOUN$ $P \cdot D \cdot \underset{i=1}{\overset{\circ}{\sum}} GiX_i \leq D$ $J = A \cdot D \cdot P \cdot BEDAHD 3A DYVET$ $X \geqslant 0 \cdot X \in \mathcal{E}^n$

NAHWHAR AH HARDHY PET GET ANHAR MERCAN ES ESCEN

NETTE CAHABA U OCPAHUMABAIDA



-> PRETPAHYJE CAMO OHE "MINDECANTHE" LENDIGE LONGENBOT CKYNA. PA-

CHORNA VIAFIA JE "LATERA U CERTIFINE". POMETHU OPOŠNEM CE LEMU HA CBE MAKE U MAJERIO PRAPARIJEM COE LOK, OHU HE SYLLY PRAPARIJEM AROSA (VAMAME) CE POMILU PRASLIJAMENI LONGICIBOT CKYRA HA DOTOPOŠNEME, POTOPOŠNEME OPOŠNEME PRASCUPINE DOMENAMO DOMENAMO POMEME UPOŠVEME UMU AKO CE OPOMEMU AKO JE HETOBO OTOMANAMO POMEME UPOŠVEMU UMU AKO CE OPOMEMU LA HETOBO LONGICIBU CKYR HE CALAMU OTO PEILL. DOMENAMO OPOŠNEME ASPERIJEMU DOMONOMEMU CE SPURIY US CKYRA DOTOPO-

-> 3 child in mothe charpain buspellemins

(3) TO MARADU CKAU URAS MENDARION OF WASHING

(2) OUL BB. A-IE MANN LOUNDOUGHA JE < OR LBEATLANDER

SABIRED CHECKSCHAIN HANGOGULLOU (9)

-> AMODUTALLE

· WHULTAMISAUNJA: CTABUTU LT = -00; AKO JE LEWIZHO GENDGOJHO RIMENE UNU JE LOVINGU CKYN NORSAH-NOOGNEN JE RIMEN

· KOHAMI IN CARKOJ MEDAMINI.

UDMEMPRION FOR HARD MEMOROZIA BLOTHOCK - LDAMARIE.

SHATIN OULNINAVAR DETAKOL OF HORMACAMIN USLUBORIENA (UBON-

3. AMYRAPATU MUCTY HEPASPELLIANX NOTINPO SNEMA NPULLEMON (a),(5) U (B)
HA HORE DOTTIPOSNEME. -> PASPELLIA RAILLE

·TECT OMILINAMORY: AMOURAM CE SAYCHBING AND HOMA HEPASYELLEHUX NOTOYOSNEMA. TRAYYHU KAMELLERT JE OMINIAMHO PRILEBE. AKO HUJE HACEL HU JERAH KAMELLERT, ASTYCHBU CKYN JE OPASAH.