ä½å¥½í¼Œæ^*æ¯æœ±ç»′å^\$ã€,毢迎ä½ç»Şç»è:Ÿæ^*å¦ä¹ç°;性代æ•°f¼Œä»Šå□©æ^*è¦è®°ç\$,内容æ¯ã€œå¦,何è¿ç³°ç°;性代æ•°æ−'法èŞ£å†³å¾è®°é—®éçr°â€ã€,

\[a\text{e}\cap{a\text{c}\cap{a\text{c}\cap{c}\cap{a\text{c}\cap{

 $\grave{e}^{-'}\mathring{a}^{\circ}\grave{e}_{\dot{\ell}}^{TM}\mathring{t}/4E\mathring{a}^{!}/2\,\ddot{a}^{!}\mathring{Y}\grave{e}^{\mathbb{R}}, \ddot{a}^{!}/4\check{s}\acute{e}-\mathbb{R}\mathring{t}^{!}/4E\grave{e}_{\dot{\ell}}^{TM}\ddot{a}_{\dot{\ell}}^{a}\mathring{a}^{'}\acute{e}\mathring{c}^{\circ}\dot{\epsilon}^{\otimes}\mathring{s}^{\otimes}\mathring{s}^{\otimes}\mathring{e}^{\circ}\mathring{a}\mathring{e}^{\circ}\mathring{c}\mathring{y}^{\otimes}\mathring{e}^{\circ}\mathring{a}\mathring{e}^{\otimes$

å>3/4çš,,æ•°å¦å®šä¹‰

 $\begin{array}{l} \textbf{x} - \textbf{x}_{\text{c}}, \textbf{y} = \textbf{x}_{\text{c}}, \textbf{y}_{\text{c}} = \textbf{x}_{\text{c}}, \textbf{x}_{\text{$

好ã°t1/4Œçް地æ¯æ—¶å€™é€\$è;‡ä¸¤ä "尰簰地æ™æ¥çœ;ä¸d¼Œå¦,何把矩ć°µå°Œå³¾è®°å…³è°èµ;æ¥i¼Œå¹¶è;簰地è\$£å†³å®žĕ™…é—®¢¢°ä¸ä°tå€,

é,»æŽ¥cŸ©é~uåo"c"

 $e'_{-}^{a}...^{\dagger}/dEe'_{e',we}ZH_{C}YCe'_{\mu}^{a}/Adjacency\ Matrixi'/woil/dEe',we}ZH_{C}YCe'_{\mu}^{e}/H_{C},ue'_{e',e',e',a'}...$ $^{2}v_{+}v_{+}^{a}/dEe'_{e',we}ZH_{C}YCe'_{\mu}^{a}/dE$

 $\label{eq:limit_section} $$a_{i}=\left(i\right) \left(segin\{array\} \{l\} 1, v_{i} v_{j} \in E(G) \right) \\ 0, v_{i} v_{j} \in E(G)^{\right, i, j=1,2, \dots, n \end\{array\} \right). $$$

å²çŸ¥æf…况æ¯è¿™æ¸çš,ī¼Œé,£æ^'们现在æ¥çœ‹ä¸E下鸛接矩é`µåœ°çް实ć—®é¢`ä¸çš,å°°°ç'"ã€,这个伫忥æ°ä°Ž1994å¹′全国大å¦ç'Ÿæ•°å-¦å»°æ¨¡ç‹œĕµè¯•é¢~Bé¢~ã€,

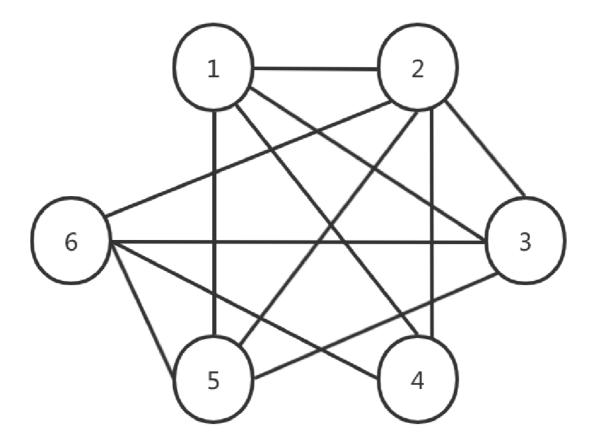
- 1. 至å°'有3ä¸ää,åŒçš,,æ•°ï¼›
- ç>,é,»ä,¤æ§¹/₂çš,,é<(~å°¦ä¹<å ®ä,èf¹/₂ä,°5ã€,

 $w >_i c^p = A^m e^a + B^m e^a + B^$



ċ¿™æ¯ä¸€ä¸7䏿§½ç\$¸å¼¹åć°å...,å°æ¯°æ°°æ°°ä»=侫åç\$¸5䏿§½å©šä°†ä¸¤ä¸∞§½ã€,æœ‱䰆弹åć°ä...形象化辰䇰åŽī¼Œæ°°ä»=开姢踣颰ã€,6°ã...è£...
ç®±æ¯ä¸€ä¸®Ž°å°—绸å¸ç\$¸æ°å¦ć—®¢¢T¼Œä½†å¦,æžœæ°ä»=°"尥袰Ş\$,¢,;∞eŽ¥çŸ©€°µæ−'法æ¥è§£è;™ä¸ª°€—®¢¢T¼Œå°±èf½å□Ÿèµå°åŒ–ç¦ä¸¢®€ç\$¸ä½œç""ä€,

é¦−å...î¹¼Œæ°'们æž,¢€ ä,€ä,º6èŠ,ç,¹ç\$,廾¹¼šæŠŠ1ã€2ã€3ã€4ã€5ã€6è¿,™6ä,°æ•°ä½œä,°6ä,°èŠ,ç,¹¼Œå¦,æžœä,¤ä,ªæ•°å—å¯ä»¥ç>,ċ,»ï¼Œé,£è¿™ä,¤ä,³èŠ,ç,¦ä¹√é—′å°±åŠ ä,€æ;è¾¹¼Œæ¯ä,ªèŠ,ç,¹æœ‱è‡å,±å°è‡å±ç\$,ä,€æ;è¾¹¼Œæ°;们å¾—å°°å°†é"å...å,æ§½ä¹√6—′ç\$,å...³ç³»å›¾⁴:



 $xZY\varsigma CI/4Czz, \&s/c, wZYs CI/4Czz, &s/c, wZYs$

```
$$A=\left[\begin{array} {|||||||}
1&1&1&1&1&1&0\\\
1 & 1 & 1 & 1 & 1 & 1 \\
```

1 & 1 & 1 & 1 & 1 & 1 \\\

1 & 1 & 1 & 1 & 1 & 1 \\\

1 & 1 & 1 & 1 & 1 & 1 & 1 \\\

0 & 1 & 1 & 1 & 1 & 1

 $\end{array}\right]$

å› ä¸°æ^'们从没有1ã€6ç› ¸ć,×çs¸å...³ç³»å›¾å¾4—å°°ä°†ć,»æŽ¥çŸ©ℰ`µ\$A\$,所以\$A\$䏿‰€æœ‰å...∫ç´ ä'‹å'Œè;¨ç¤°ä ¤ä¸®ş½ć«č**æ—1ã€6ç› ¸ć,**ȍs¸¿°å... ~ä,*æ*°å€,6€€Eæ¯ä,*æ—1ã€6ç),¢,yç\$,5使•°äŽå...³ç'>å>½å(¢-Zå*¦æ*¯1ç\$,å,€e;6*¾á,€ä,€ä¯³å*°ã€,䰎毆¼Æ\$A^{k}\$ä,å...fç ~ä'\å'Œå°±æ¯é•¿å°¦ä,*\$k\$ç\$,6*%接ä,*æ•°ã€,毳å¦,\$A^{2}\$ä,ç—\$i\$è;Œç—\$j\$å°—ç\$,å...fç

å°±æ¯\$i\$å'⁄£å\$'çyèç;‡ä;¤æjè³/4'å°è³⁄3'⁄\$j\$ç\$,é°∜接ä,ªæ°ã€,æ°iæ)=è;™é‡Œå› ä,°æ¯5ä,ªå…fç′i¹⁄₄Œä¹Ÿå°±æ¯è¦çyè;‡4æjè¾¹i¼Œæ%æä»¥éœ€è¦è®jç®—\$A^{4}\$ã€,

 $A^{4}=\left[\left(\frac{1}{4} \right) \right]$

141 & 165 & 165 & 165 & 165 & 140 \\\

165 & 194 & 194 & 194 & 194 & 165 \\\ 165 & 194 & 194 & 194 & 194 & 165 \\\

165 & 194 & 194 & 194 & 194 & 165 \\\

165 & 194 & 194 & 194 & 194 & 165 \\\

140 & 165 & 165 & 165 & 165 & 141

\end{array}\right]\$\$

把\$A^{4}\$ä,çš,å...fç' æ±,å'Œï'¼Œå°±èf½å¾—å°çy,é,»é«~å·®ä,°5çš,é''å...æ•°æ¯6306ã€,

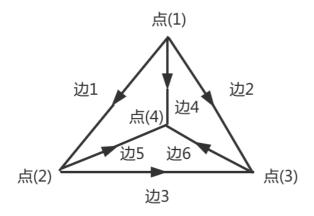
最åŽÍ¼Œå› 丰¢¢¯ç;®ç\$¸¢™å¯¶æå¯°ä¹†æ§½ç\$¸¢‹‹ã°\ċ†³å°°æœ‰3ä¸ä¸åŒç\$¸æ•¾Ææ¯°ä»-ċ;¯ċ¦æŠŠ6306è¿™ä¸*æ•°å—åţåŽシ仅有一ä¸ä€ā¸¤ä¸å¸%¸å;°ï,...ï¼\$\$6306- $\label{eq:condition} $$\left(6+\left(C_{6}\right)^{2}-1\right)\left(2^{5}-2\right)\right)=5880$$ ac, $$\left(2^{5}-2\right)^{2}.$$

 $\text{è}_{l}^{\text{TM}} \text{æ} \cdot \text{i}'_{l} \text{E} \text{e}^{\text{`}} \text{ë}_{l} \text{e}^{\text{`}} \text{e}^{\text{``}} \text{e}^{\text{```}} \text{e}^{\text{``}} \text{e}^{\text{``}} \text{e}^{\text{``}} \text{e}^{\text{``}} \text{e}^{\text{``}} \text{$

 $\varsigma\%''\tilde{a}''\&e\varsigma^{r}''/\tilde{s}\&-\frac{1}{4}\varsigma'''\tilde{a}''\varsigma', SA^{k} \\ \tilde{s}\&\tilde{u}''\tilde{u}''\&e\&^{r}\tilde{u}, \tilde{s}\&\tilde{u}''\tilde{u$

å...³è"矩é~µå°"ç""

接䏿¥ľ¼Œæˆ°ä>¬åœ´¢¸>接矩€`µä¸Šå†å‡ç°§ä¸€ä¸ď¼ŒæŠŠè³¼å¯æˆæœ‱å°è¾å€¸è;™æ ·å°±å½¢æ´ã°†å¦ä¸€ç±>׸Ÿ'©€`µï¼šå…³è"矩€`µã¸Šå†å‡ç°¸åë¸å¸åç«ç""åœ˚峾记ä¸-,ÇŽ°åœ°æ°ʻ们å°±æ¥çœä €ä¸å...³è°ÇŸ©€°¸å°Œå³¼ä¹⟨é—´çຮ¸å...³ç°»å€¸å¦¸ä¸å»¾æ‰€ç°°ï¼Œæˆ°ä»¬å®šä¹‰ä°†ä﹐€ä,ªæ‹¥æœ‰4ä°èЏç¸å°Œ6æ¡è¾√皸峾〸



接ä,‹æ¥f¹⁄«Œå@\$义ä,€ä¸ªó×4çš,ç;Ÿ©é`µæ¥æè¿°è¿™ä¸å³⁄¾t³⁄«Œå...¶ä¸å^~è;'礰ç,¹(1)å°°ç,¹(4)f¹⁄«Œè¡Œè;'礰è³¼¹ lå°èè¼¹ bſ¹⁄sš

0 & 0 & -1 & 1 \end{array}\right]\$\$

$$\begin{split} & \varsigma \ddot{\Upsilon} @ \dot{\varsigma} \tilde{\Upsilon} & \tilde{$$

 $e_i \text{TM} e_i \text{TM} e_i$

```
$$A x=\left[\begin{array} {cccc}
-1 & 1 & 0 & 0 \\\
-1 & 0 & 1 & 0 \\\
0 & -1 & 1 & 0 \\\
 -1 & 0 & 0 & 1 \\\
0 & -1 & 0 & 1 \\\
0 & 0 & -1 & 1
\end{array}\left[\left[\left(\frac{array}{1}\right)\right]\right]
x_{1} \le
x_{2} \\\
x_{3} \\\
x_{4}
\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ensuremath{\colored{c}}\ens
x_{2}-x_{1} \le
x_{3}-x_{1} \le
x_{3}-x_{2} \\\
x_{4}-x_{1} \\\
x_{4}-x_{2} \le
x_{4}-x_{3}
\end{array}\right]$$
```

ç"±æ¤ā¯èŞî1⁄4Œç»'æžœæ¯å·®å€/xĨ1⁄4Œä¹Ÿå°±æ¯æ²¿ç€è¾¹1å°°6ç\$,ç"µåŠ¿å·®î1⁄4Œæœ‰ä°†ç"µåŠ¿å·®ī1⁄4Œå°±è¯′æ`Žæœ‰ç"µæµïf⁄4Œä½†å¦,æžœAx=0ä1⁄4šæ€Žæ·å'¢ĭ1⁄4Ÿä¹Ÿå°±æ¯æ−¹ç¨æ»¡è¶°è¿™æ·ç\$,ç‰ål∕á1/4\$

```
$$A x=\left[\begin{array} {cccc}
-1 & 1 & 0 & 0 \\\
-1 & 0 & 1 & 0 \\\
0 & -1 & 1 & 0 \\\
-1 & 0 & 0 & 1 \\\
0 & -1 & 0 & 1 \\\
0 & 0 & -1 & 1
\label{lem:lemma} $$\left( \operatorname{array} \right) \left( \operatorname{array} \left( \operatorname{array} \right) \right) $$
x_{1} \le
x_{2} \le
x_{3} \\\
x_{4}
\end{array}\right]=\left[\left[ \left[ \left( array \right) \right] \right]
x_{2}-x_{1} \le
x_{3}-x_{1} \le
x_{3}-x_{2} 
x_{4}-x_{1} \\\
x_{4}-x_{2} \\\
x_{4}-x_{3}
\end {array} \right]=\left[\begin {array} {1}
0 \\\
0 \\\
0 \\\
```

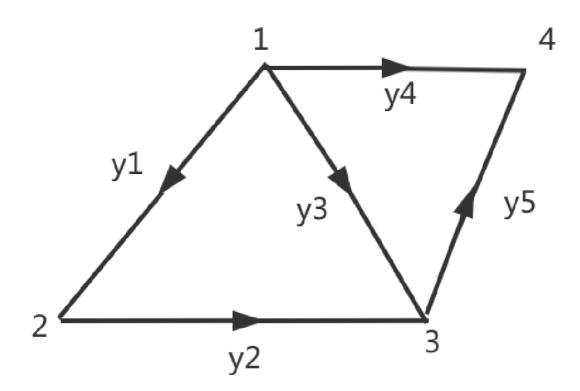
0 \\\

\end{array}\right]\$\$

å¾°æ´Žæ'¾d¼Œè¿™ä°å°®å€¼d¼Œä'Ÿå°±æ´¯ç'`µåŠ¿å·®éf¼ç‰ä°Ž0f¼Œæ,å°³ç€æ²¡æœ‰ç'`µæµã€,åŒç†t¼Œå¦,果把ç'`µåŽå€¼æ¢æ`æ,©å°¦å⁺¢f¼Ÿé,£å°°ç'''地景å°±å^‡æ¢æ`çƒä¼å¯¼ã°†ã€.

\(\text{e}\)CE\(\text{a}\)c\(\text{c}\)\(\text{e}\)\(\

å^\$æ‱e^*ä>¬è¯'ç\$,æ¯ç"µåŽఁtl/«Œçްåœ`æ^*ä>¬æ¥å… ä½°¢œ¢œ‹å… ³è"çÝ©é`µåœ°åŸ°å°"6œå¤«ç"µæµå®\$å³4«ä,Šç\$,è¿ç?"ã€,æ^*ä>¬æ¥å®\$ä'‰ä,€ä,ªæ‹¥æœ‰4ä,ªèŠ,ç,¹å'Œ5æjè¾¹ç\$,åᢧ³4ï/s*



```
$$\left[\begin{array} {cccc}
-1 & 0 & -1 & -1 & 0 \\\
1 & -1 & 0 & 0 & 0 \\
0 & 1 & 1 & 0 & -1 \\\
0 & 0 & 0 & 1 & 1
\end{array}\right]\left[\begin{array} {1}
y_{1} \\\
y_{\{2\}} \ \text{in}
y_{3} \\\
y_{4} \leq
y_{5}
\end{array}\right]=\left[\begin{array} {c}
0 \\\
0 \\\
0 \\\
0
\end{array}\right]$$
```

e¿™é‡Œ-1i¼Œ0i¼Œlçs,å‹ä¹‰äŠé¢æœ‱所æè;¼¼Œç¯ä,e行å˚Œ\$y\$å'é‡p;äïåŽå¾—刹¼š\$-y_{1}-y_{3}-y_{4}=0\$i¼Œè¯æ`ŽävŽèŠ,ç,¹¹å‡°æ¥çš,æ€vçïµæµç-䊡Ž0i¼Œæ»¡₫¶å®ˆæ`定律t¼vç¯ä°Œè¡Œå˚Œ\$y\$å'é‡p;äïåŽå¾—刹¼š\$y_{1}-y_{2}=0\$i¼Œè¯æ Žæµå...¥èŠ,ç,¹2çs,çïµæµå′ŒävŽèŠ,ç,¹æµå;çs,çïµæµç,ç-‰i¼åŒæ ·ī¼ŒãŽé¢ä□行分å´«å´Œ\$y\$å'é‡p;äïåŽå¾—刹¼«\$\$y {2}+y {3}-y {5}=0\$å′Œ\$y {4}+y {5}=0\$ī¼Œã Œå¾è;ç□°ç\$,¢f½ä,€è‡ï¼Œä'Ÿéf¼ç¬¦åˆå®ˆæ³å®s徿€,

好ä°†1¼Œå°è¿™é‡Œç®€å•ç°µè⁻çš,æ•°å¦çŸ¥è¯†1¼Œä¹Ÿå°±æ¯å…³è"矩ć°µè®³å®Œä°†1¼Œá¦,果碰å°œ>′夿,çš,ç°µè⁻1¼Œæ¯³å¦,1¼šåœ¨èŠ,ç,¹ä¹√6— ′1¼Œä¹Ÿå°±æ¯è¾¹ä¸Šæœ‰ç°µæµæ°1¼Œé,£ä¹°1¼Œç‰å¼å°±è¦ä»Ž\$A^{T} y=0\$å°æ°\$A^{T} y=1\$ã€,

本èŠ,å°ç»"

œœ¯èŠ,æ¯ç¯;ã°ç¯;1å°ç°;ç¯;11¼Œæ‰€ä»¥æ°;从æ°è′°è¿ʻç°¸Ÿæ′»çs,伫忥讳è\$£ç°¿æ€§ä»£æ°°çs,å°°ç°"1¼ŒèEsè¿;1å¼¹åë°ã… ·1¼Œè®©ä½è∱¼å¤Ÿä°†è\$£1¼Œé,»œŽ¥çŸ©é°µä,Žåъ¾è®°ä¹«é—′æ¯æ€Žä¹å…³è°çs,;¼»é€šè¿;1埰å°°éœå¤«å®šå¾«1¼Œè®©ä½è∱½å¤Ÿä°†è\$£å…³è°çŸ©é°µä,Žåъ¾è®°ä¹«é— ′æ¯æ€Žä¹°å…³è°çs,ā€,

所以,ć,»æŽ¥çŸ©ć°µã€ã...³è°;矩ć°µç\$,最å¤\$æ,ä¹%å°±æ¯ç°"æ•°å¦ç\$,æ−¹å¼æè;°å³¾ï¼Œè;>而æ¥æè;°æŸä°a°¢;©ä°(¢—´ç\$,æЎç\$特å®\$å...³ç³»ï¼Œæ¯ä﹐æ¯å⁺现ć— ®¢¢°åŽé€\$è;‡æ•°å¦å·¥å...·æ¥è}£å†³ć—®¢¢°å¼^罎ä;™å⁺¢ï¼Ÿ

簿性代æ•°¢»fä¹ åœ°

 $\grave{e}_{\dot{\varsigma}}^{\mathsf{TM}} \& \neg_{\dot{\varsigma}} \varsigma , \varsigma \gg f \ddot{a}^{1} \, \acute{e} \rlap{e}^{\mathsf{c}} \varsigma \, \mathring{a}^{3} / \rlap{e} \& \& \& \ddot{a}^{\mathsf{o}} \rangle \acute{e} \mathring{s}^{3} / \mathring{a}^{\mathsf{o}} | \mathring{a}^{\dagger} / \rlap{e} \& \& \ddot{a}^{\mathsf{o}} \rangle \acute{e} \mathring{a}^{\dagger} / \rlap{e} \& \& \ddot{a}^{\mathsf{o}} \rangle \acute{e} \mathring{a}^{\mathsf{o}} / \mathring{a}^{\mathsf{o}} | \mathring{a}^{\mathsf{o}} / \mathring{a}^{\mathsf{o}} \rangle \acute{e} \mathring{a}^{\mathsf{o}} / \mathring{$

 $x^3 x, j'/s \dot{c}_i T^M \dot{c}_i T \dot{c}_s, \dot{c}_B \dot{c}_i \dot{c}_B \dot$