# **BinaryEditor** Stirling

 $\begin{array}{l} \textbf{Stirling[]ifXf^[[fŠf"fO]],} (Windows-pfofCfifŠfGfffBf^,)] U, \frac{1}{2}, \dot{E}'\dot{e}''\hat{O}, \mathcal{A}, \dot{E}, \dot{e}, \times, \underline{O}A' - \dot{O}Z'', \mu, \ddot{A}SJ'', \frac{3}{2}, \dot{e}, \frac{1}{2}, \langle @'' \setminus fofCfifŠfGfffBf^, A, \cdot \underline{O}B'' \\ \end{array}$ 

<—ĺ,ÈfJfXf^f}fCfY[]«,ÆŠeŽí<@"\,ð—L,µ[]AŽg,¢[]ž,Þ,Ù,Ç,ÉŽè,É,È,¶,ÝŽè•ú,¹,È,-,È,éfc[[f<,ð-ÚŽw,µ,Ü,µ,½]]B

Stirling,É,ĺ^ȉº,Ì"Á'¥,ª, ,è,Ü,·□B

 $\Box_i fefLfXfgfGfffBf^, \acute{E}, \grave{a} \cdot C''G, \cdot, \acute{e} - \acute{I}, \grave{E}fJfXf^f fCfY < @''$ 

\_\_\_\_EŹfXfgf\_\_[[fNfL□[,â Esc f□fjf...□[\_ĂĎOŠ Œ^'I'ð'€□ì,à‰Â"\,ÈfL□[fJfXf^f}fCfY □E10ŒÂ,Ü,Å'è<`,Å,«,éf†□[fU□[f□fjf...□[□AŠef□fjf...□[,Í□Å'å30□€–Ú,Ü,ÅŽw'è ‰Â"\

$$\label{eq:linearconductor} \begin{split} & \square \dot{E} \cdot \dot{Z}_{|\square} \in -\dot{U}, \\ & \delta \check{Z}_{w} \dot{e} & \delta \check{Z}_{w} \dot{Z}_{w} \dot{E} & \delta \check{Z}_{w} \dot{Z}_{w} \dot{E} & \delta \check{Z}_{w} \dot{Z}_{w} \dot{Z}_{w$$

[];•Ò[]W[]ì<Æ,ð<—ĺ,ÉfTf|[][fg,∙,é"ÆŽ©<@"\

□Eftf@fCf<,Ì"r'¼0§Œä,âfofbfNfAfbfv□

¢'ã¯ĺ" ĺĂfofbfNfAfbfṽ læftfHf<f\_,ÌŽw'è" ™ [A^À[S<@"\

[];,»,Ì'¼[]AŠeŽí<@"∖

,e,`,p

^ȉº,É—Ç,-â,¢□‡,í,¹,ª—^,é□€–Ú,É'Î,∙,é‰ñ"š,ð□Ú,¹,Ä,¨,«,Ü,·□B □ìŽÒ,É–â,¢□‡,í,¹,ð,∙,é'O,ÉŠY"–□€–Ú,ª,È,¢,©Šm"F,μ,Ä,Ý,Ä,,¾,³,¢□B

,p□D•\ަftfHf"fg,Í•Ï□X,Å,«,È,¢,Ì□H ,`□D,Å,«,Ü,·□B □@□@•\ަftfHf"fg,Ì□Ý'è,͊‹«□Ý'è,Å,Í,È,<u>Šg'£Žq•Ê□Ý'è□|□F¥ftfHf"fg</u>fy□[fW,É, ,è ,Ü,·□B <mark>]@]@Šg'£Žq-^,É</mark>ftfHf"fg,¾,<sup>-</sup>,Å,È,•\ަ□F,â‹'²•\ަff□[f^,ªŽw'è,Å,«,Ü,·□B

,p□D•Ò□Wftf@fCf<-¼,ðftf<fpfX•\ަ,µ,½,¢,ª‰Â"\,©□H ,`□D,Å,«,Ü,·□B □@□@<u>ŠÂ<«□Ý'è□\fEfBf"fhfE</u>fy□[fW,Å□ufhfLf...f□f"fg,Ìftf<fpfX•\ ަ□v,ðf`fFfbfN,µ,Ä,,¾,³,¢□B

,p[Dff][f^ftf@fCf<,ð•Ò]W'†,É,»,Ìftf@fCf<,ðŽg—p,·,éfAfvfŠ,ð<N" ®,·,é,ÆfGf ‰][f][fbfZ][fW,ª•\ަ,³,ê,é , `]D,»,ê,ĺftf@fCf<,Ì"r'¼]§Œä,ª",¢,Ä,¢,é,½,ß,Å,·]B ]@]@,»,¤Œ¾,¤]ê[]‡,Í<u>ŠÂ<«]Ý'è]]</u> <u>ftf@fCf<</u>fy][fW,Åftf@fCf<,Ì"r'¼]§Œä,ð]u,µ,È,¢]v,É•Ï]X,µ,Ä,,¾,³,¢ ]@]@]Ú]×,É,Â,¢,Ä,Í]u<u>ftf@fCf<,Ì"r'¼]§Œä</u>]v,Ì]€,ðŽQ]Æ,µ,Ä,,¾,³,¢]B

,p□DfAfEfgfvfbfgfEfBf"fhfE,ĺ‰½,Ì,½,ß,É, ,é,Ì□H ,`□DfAfEfgfvfbfgfEfBf"fhfE,É,ĺ<u>,a,f,q,d,o</u>,ÌŒŸ□õŒ<‰Ê,ª•\ަ,³,ê,Ü,·□B □@□@Œ»□Ý,Ì,Æ,±,ë□A,»,ê^ÈŠO,É,ĺŽg—p,³,ê,Ä,¢,Ü,¹,ñ□B

# fCf"fXfg[[f<]EfAf"fCf"fXfg[[f<

,»,Ì'¼,É,Í"Á,ÉŽè□‡,Í, ,è,Ü,¹,ñ□B

**fAf"fCf"fXfg**[[f< fAf"fCf"fXfg[[f<,·,é[]Û,Í Stirling ,ðŠi"[,μ,½ftfHf<f\_[[,²,Æ[]í[]œ,μ,Ä,,¾,³,¢[]B

#### Šî-{'€[]ì

#### Šî–{"I,È'€□ì,ĺ"Á,É'¼,ÌfofCfifŠfGfffBf^,Æ•Ï,í,è,Ü,¹,ñ□B fL□['€□ì,ÉŠÖ,µ,Ä,ĺfJfXf^f}fCfY,Å,«,Ü,·,ª□A□‰Šú□ó'Ô,Å,ĺ^ȉº,Ì—I,É,È,Á,Ä,¢ ,Ü,·□B

,e,P ,e,R □© □ <sup>ª</sup> □ <sup>®</sup> Insert Delete Backspace Tab Home End	fwf <fv <math>\check{Z}</math>''Œ'']Õ fJ]][f\f&lt;]¶ fJ]][f\f&lt;<math>\otimes</math>E fJ]][f\f&lt;<math>\otimes</math>E fJ]][f\f&lt;<math>\otimes</math>° ]<math>\check{a}</math>]'^'}"ü]Ø'Ö ,PfofCfg][í]œ '¼'O,Ì,PfofCfg][í]œ ]"'I"ü—Í]^•¶Žš"ü—Í]Ø'Ö ]s]¶'[,É^Ú"® ]s‰E'[,É^Ú"®</fv 
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 $\underline{\square(\dot{c}')} \bullet \dot{O} \underline{\square W \langle @'' \rangle} \\ \delta \ddot{Z}g = p, \cdot, \acute{e}, \frac{1}{2}, \beta, \acute{E}, \dot{\Box}(\dot{c}') \dot{e} \langle ftf@fCf \langle , ^{2} \bullet K = v, A, \cdot \Box B \\ \underline{\square}(\dot{c}') \dot{e} \langle ftf@fCf \langle , \hat{I} struct.def, \mathcal{A}, \dot{e}, xftf@fCf \langle -\frac{1}{4}, A Stirling.exe \\ \mathcal{A}_{*}^{*-}, \PftfHf \langle f_{,} \dot{E}'u, \bullet K = v, ^{2}, \dot{e}, \dot{U}, \cdot \Box B \\ \end{array}$ 

[]\'¢'Ì'è<`ftf@fCf<,É,Í[]\'¢'Ìfef"fvfŒ[[fg,ð<L[]q,μ,Ü,·[]B fA[[fJJfCfu,É"Y•t,³,ê,Ä,¢,é struct.def ,ðŽQ[]Æ,·,ê,Εª,©,é,ÆŽv,¢ ,Ü,·,ªfefLfXfgŒ`Ž®,Å[]A[]'Ž®,ĺ,bŒ¾Œê,Ì[]\'¢'Ì[]錾,Æ,Ù,Ú"⁻^ê,É,È,Á,Ä,¢ ,Ü,·[]B

[]\'¢'Ìfef"fvfŒ[][fg,ð'ljÁ,·,é,± ,Æ,É,æ,è[]V<K,É[]\'¢'Ìff[][f^,ª"o~^,³,ê[]A[]\'¢'Ì•Ò[]W<@"\,Å"Ç,Ý[]ž,ß,é,æ,¤ ,É,È,è,Ü,·[]B

,Ü,½  $\label{eq:constraint} \begin{array}{l} & , \ddot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, & \dot{U}, \\ & \dot{U}, &$ 

□¡Žg—p,Å,«,éff□[ƒ	<sup>-</sup> ^Œ^‹y,ÑffftfHf‹fgŠî∏"
char∏ACHAR	,PfofCfgff[[f^[i•,,[]+•t,«,P,O[]i•\ަ[j
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BYTE	,PfofCfgff□[f^□i,P,U□i•\ަ□j

short[]ASHORT	,QfofCfgff□[f^□i•,,□†•t,«,P,O□i•\ަ□j
word	,QfofCfgff□[f^□i • ,,□†,È,µ,P,O□i • \ަ□j
WORD	,QfofCfgff□[f^□i,P,U□i•\ަ□j

 $\label{eq:long_ALONG} & ,SfofCfgff[[f^[i \bullet ,,[] + \bullet t, «,P,O[] i \bullet \Ž|]j \\ dword & ,SfofCfgff[[f^[i \bullet ,,[] + ,È,\mu,P,O[] i \bullet \Ž|]j \\ DWORD & ,SfofCfgff[[f^[i,P,U[] i \bullet \Ž|]j \\ \end{array}$ 

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□¡"Á<LŽ–□€ □E□\'¢'Ì'è<`'†,ÌfRf□f"fg,É,Â,¢,Ä,ĺ/\*□`\*/Œ`Ž®<y,Ñ//Œ`Ž®□i□sfRf□f"fg□j,É'Î ‰ž,µ,Ä,¢,Ü,·□B □Ef□f"fo□[-¼,ÉŠÖ,µ,Ä,ĺ"ú-{Œê,àŽw'è,Å,«,Ü,·□B

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□\'¢'Ìfef"fvfŒ□[fg,Ì□'Ž®,ÉŒë,è,ª, ,é□ê□‡,É,Í□\'¢'Ì•Ò□W,Ì□‰ ‰ñŽÀ□sŽž□i□\'¢'Ì'è<`ftf@fCf<,Ì"Ç,Ý□ž,ÝŽž□j,ÉfGf‰□[f□fbfZ□[fW,ª•\ ަ,³,ê,Ü,·□BfGf‰□["à—e<y,ÑfGf‰□[‰Ó□Š,ðŽQ□Æ,µ,Ä□C□³,µ,Ä,,³⁄₄,³,¢□B

## ftf@fCf‹,Ì"r'¼**□§Œ**ä

ftf@fCf<,Ì"r'¼[]§Œä,É,Â,¢,Ä,Í[]¬—[],µ,Ä,¢,é[]l,ª'½,¢—l,Å,·,ª[]A^ȉº,Ì[]à-¾,ðŽQ[]l,ÉŽg—p,·,é[]ó<µ,É[]‡,í,¹,Ä[]Ý'è,µ,Ä,,¾,³,¢[]B

#### <u></u>\_u,μ,È,¢<u></u>]vf,□[fh

•Ò□W'+,Ìftf@fCf<,É'Î,·,é"r'¼□§Œä,ð^ê□Ø□s,¢</li>
 ,Ü,¹,ñ□B•Ò□W'+,Ìftf@fCf<,ð'¼,ÌfAfvfŠ,©,ç•Ï□X,·,éŽ-,à‰Â"\,Å,·□B^È</li>
 ‰º,Ì□ê□‡,É'I'ð,µ,Ä,,¾,³,¢□B
 □Eff□[f^ftf@fCf<,ð Stirling ,Å•Ò□W,µ,È,ª,ç□A-{—^,ÌfAfvfŠ,àŽÀ□s,µ,½,¢□ê□‡</li>
 □E[u,Æ,É,©,'¼,ÌfofCfifŠfGfffBf^,Æ"<sup>-</sup>—I,ÌŽg,¢□ŸŽè,ÅŽg—p,µ,½,¢□v,Æ,¢,¤□ê□‡
 □E[u"r'¼□§Œä□v,ÆŒ¾,í,ê,Ä,à‰½,ÌŽ-,©,æ,•ª,©,ç,È,¢□ê□‡

#### []u[]',«[]ž,Ý<ÖŽ~[]vf,[][fh

•Ò□W'+,Ìftf@fCf<,ª'¼,ÌfAfvfŠ,Å•Ï□X,³,ê,È,¢—</li>
 I,Éf□fbfN,ð,©,⁻,Ü,·□B,»,ÌŒ<‰Ê□A'¼,ÌfAfvfŠ,ª•Ï□X-</li>
 Ú"I,Åftf@fCf<,ÉfAfNfZfX,·,é,ÆfGf‰□[,É,È,è,Ü,·□i"Ç,Ý□ž,Ý□ê—p,Å,ÌfAfNfZfX,Í</li>
 ‰Â"\,Å,·□j□B^ȉ⁰,Ì□ê□‡,É'I'ð,µ,Ä,,¾,³,¢□B
 □E•Ò□W'+,Ìftf@fCf<,ð'¼,ÌfAfvfŠ,Å•Ï□X,³,ê,½,,È,¢□ê□‡</li>

#### []u"Ç,Ý[]',«‹ÖŽ~[]vf,[][fh

•Ò□W'†,Ìftf@fCf<,É'Î,μ□A□',«□ž,Ý,ɉÁ,¦"Ç,Ý□ž,Ý,³,¦<ÖŽ~,μ,Ü,·□B^È</li>
 ‰º,Ì□ê□‡,É'I'ð,μ,Ä,,¾,³,¢□B
 □E•Ò□W'†,Ìftf@fCf<,É'Î,μ□A'¼,ÌfAfvfŠ,©,ç,Ì^ê□Ø,ÌfAfNfZfX,ð<'"Û,μ,½,¢□ê□‡</li>

,È,¨[]A[]u,µ,È,¢[]vf,[][fh,Å•Ò[]W,µ,Ä,¢ ,éftf@fCf<,ª'¼,ÌfAfvfŠ,Å•Ï[]X[]E•Û'¶,³,ê,½[]ê[]‡,É,Íf[]fbfZ[][fW,ª•\ަ,³,ê[]A[]^— [],ð'l'ð,·,é,±,Æ,ª[]o—^,Ü,·[]B

 $ftf@fCf <, i''r''_{4} \\ \label{eq:ftf} b c \ddot{a}, i \\ u \\ \underline{S} \\ A < \underline{n} \\ \underline{S} \\ A < \underline{n} \\ \underline{S} \\ A \\ \underline{S} \\ A \\ \underline{S} \\ A \\ \underline{S} \\ A \\ \underline{S} \\ \underline{S$ 

#### frfbfgfCf[][[fW

frfbfgfCf[][[fW,ĺfhfLf...f[]f"fg,Ì"à—e,ð,PfofCfg[]],Pfhfbfg,Æ,µ,ÄfCf[][[fW•\ަ,·,é<@"\,Å,·]B fCf]][[fW•\ަ,Éf}fEfXfJ][[f\f<,ð^Ú"®,³,¹,é,ÆŠY"-‰Ó]Š,ÌfAfhfŒfX,ªfXfe][f^fXfo][,É•\ަ,³,ê,Ü,·]B f}fEfX,ð]¶fNfŠfbfN,·,é,ÆŠY"-‰Ó]Š,ÉfhfLf...f[]f"fg,ª^Ú"®,µ,Ü,·]B

 $\begin{array}{l} frfbfgfCf [] [fW, l u \underline{\check{S}g' \underline{f} \check{Z}q \bullet \hat{E} [] \acute{Y} \dot{e} ]] \\ \underline{\squareF \_ Eftf Hf"fg \_ V, A \_ ufrfbfgfCf [] [fW, \acute{E} \check{Z}w' \dot{e} ]F, \eth" \frac{1}{2} & f, 3, 1, \acute{e} \_ v, \eth \check{Z}w' \dot{e}, \cdot, \acute{e}, \pounds fhfLf ... \\ f \_ f"fg, l \bullet \langle \check{Z} | \_ F, \pounds"^{-}, \P \_ F, A \_ A \check{Z}w' \dot{e}, \mu, \grave{e}, \notin \_ \hat{e} ] \ddagger, \acute{e} \_ f, ffftf Hf \langle fg \_ F, A \bullet \langle \check{Z} |, 3, \hat{e}, \ddot{U}, \cdot \_ B \end{array}$ 

fhfLf...

$$\begin{split} \tilde{f}_{0}^{\text{fr}} \tilde{f}_{g} f Ef Bf^{\text{fr}} f h f E, \delta_{0}^{\text{o}}, e^{O}, |, \frac{1}{2}, e^{f_{0}} [f_{v}f^{\text{fr}}_{0} Af Nf_{0}^{\text{o}}_{0} [f_{v}, \mu, \frac{1}{2}_{0}] \hat{U}, E, \\ \tilde{f}_{0}^{\text{fr}} f h f E, \delta_{0}^{\text{o}}, e^{O}, |, A^{\text{o}} \setminus Z_{1}^{\text{o}}, \mu, U, \cdot, a_{0}^{\text{o}}_{0} ] \hat{U}, \mu, \frac{1}{2}_{0} ] \hat{U}, E, \\ \tilde{f}_{0}^{\text{fr}} h f E, \delta_{0}^{\text{o}}, e^{O}, e^{O}, |, A^{\text{o}} \setminus Z_{1}^{\text{o}}, \mu, U, \cdot, a_{0}^{\text{o}}_{0} ] \hat{U}, \mu, \frac{1}{2}_{0} ] \hat{U}, \mu, U, \cdot, A_{0}^{\text{o}}_{0} ] \hat{U}, A_{0}^{\text{o}}_$$

,Ü,½□AfrfbfgfCf□□[fW,Í□u<u>ŠÂ<«□Ý'è□|fEfBf"fhfE</u>□v,Ì□ufrfbfgfCf□□[fW,ðfhfbfLf"fO ‰Â"\,É,·,é□v,ðŽw'è,·,é,Æ-{'ÌftfŒ□[f€fEfBf"fhfE,ÉfhfbfLf"fO‰Â"\,É,È,è,Ü,·□B

## "äŠr,֗̕~,ÈŽg,¢•û

Stirling,Å,ĺftf@fCf<,Ì"äŠr<@"\,ª, ,è,Ü,·,ª□AŽg,¢•ûŽŸ'æ,Åftf@fCf<'Š^á ‰Ó□Š,ÌŠm"F,ª"ñ□í,ÉŠÈ'P,É,È,è,Ü,·□B

,Ü, \_□A□€"õ,Æ,μ,Ä<u>fEfBf"fhfEf□fjf...□[</u>,æ,è□u□ã‰⁰,É•À,×,Ä•\ަ□v,ð,μ,Ü,·□B

ŽŸ,É□A"äŠr,µ,½,¢ftf@fCf<,ðŽw'è,µ,Ä"äŠr,ðŽÀ□s,µ,Ü,·□B

'Šˆá‰Ó∏Š,ðŒŸ∏õ,μ∏A∏u<u>'Šˆá‰Ó∏Šˆê——</u>□vf\_fCfAf∏fO,ÉŒ<‰Ê,ª•\ ަ,³,ê,Ü,·<u>□</u>B

□u<u>'Š^á‰Ó□Š^ê</u>—\_\_\_□vf\_fCfAf□fO,Å<mark>"äŠrŒ<‰Ê,Ì<'2•\</mark> ަ,Æ<mark>fVf"fNf□fXfNf□□[f</mark><,ðf`fFbbfN,μ,Ä,,¾,³,¢□B 'Š^á‰Ó□Š,ª<'2•\ަ,³,ê□A,©,Â□A'Š^á ‰Ó□Š,ð'T,·□Û,É,Q,Â,ÌfEfBf"fhfE,ª"<sup>-</sup>Šú,μ,ÄfXfNf□□[f<,·,é,Ì,ÅŠm"F,μ,â,·,-,È,è,Ü,·□B

# [ftf@fCf<] f□fjf....[[

 $ftf@fCf \langle f \Box f j f ... \Box [, \acute{E}, \acute{I}^{\grave{E}} \& {}^{\varrho}, \grave{I}fRf \} f "fh, {}^{a}, \ , \grave{e}, \ddot{U}, \cdot \Box B$ 

 $\begin{array}{c} [\square V < K \square i \square \neg ] \\ [\check{S}] ....] \\ [\bullet \hat{A}, \P, \acute{e}] \\ [\square \tilde{a} \square', « \bullet \hat{U}' \P] \\ [-\frac{1}{4}'O, \check{\delta} \bullet t, \bar{-}, \ddot{A} \bullet \hat{U}' \P ....] \\ [f \_ f'' f v f C f \square \square [f W, i \bullet \hat{U}' \P ....] \\ [\hat{\delta} \square \ddot{u} ...] \\ [\hat{\delta} \square \ddot{u} f v f Œ f r f ... \square [l] \\ ['' I ^ i, \check{\delta} \check{Z} w' \grave{e}, \mu, \ddot{A} ^ \delta \square \ddot{u} ....] \\ [f v f \check{S} f'' f ^ , i \square \check{Y}' \grave{e} ...] \\ [\square - 1] \end{array}$ 

# [•Ò]W] f]fjf...][

•Ò□Wf□fjf...□[,É,ĺ^ȉº,ÌfRf}f"fh,ª, ,è,Ü,·□B

$$\begin{split} & [\underline{\mathbb{C}}^{3}, \underline{\acute{E}} - \underline{\acute{S}}, \cdot] \\ & [, \underline{\hat{a}}, \underline{\acute{e}}' \underline{\checkmark}_{4}, \mu] \\ & [\square \emptyset, \underline{\acute{e}} \underline{\check{z}}, \underline{\grave{e}}] \\ & [fRfs \square [1] \\ & ['', \underline{\grave{e}} \bullet \underline{t}, -] \\ & ['l' \eth'' \underline{\acute{1}}, \underline{1}] \square \square \underline{\textcircled{c}} \underline{\acute{m}} \\ & ['l' \eth'' \underline{\acute{1}}, \underline{1}] \square \underbrace{\textcircled{c}} \underline{\acute{m}} \underline{\acute{s}} \underline{\acute{u}} \underbrace{\textcircled{m}} \underline{\ast} ...] \\ & [\bullet \grave{O} \square \underline{W}' O, \underline{\acute{E}} - \underline{\acute{S}}, \cdot] \\ & [\Box \underline{\acute{r}}, \underline{\acute{r}}] \underline{\acute{1}}, \underline{\acute{O}} \square \underline{W}] \\ & [\Box \underline{\acute{r}}, \underline{\acute{r}}] \underline{\acute{O}} \square W < O \underline{\check{Z}} \sim ] \end{split}$$

## [ŒŸ□õ□E^Ú"®] f□fjf...□[

[ŒŸ∏õ…] [•sˆế′vŒŸ∏õ…] ['OŒŸ∏õ] [ŽŸŒŸ∏õ] \_\_\_\_\_ ['uŠ·…] ["äŠr...] [fVf"fNf□fXfNf□□[f<...] [ff⊓[f^∏æ"ª,É^Ú"®] [Žw'èfAfhfŒfX,Ö^Ú"®...] [**□**Å**□**I•Ï**□**X‰Ó**□Š,Ö**<sup>^</sup>Ú"®] [ff⊓[f^--″ö,É^Ú́"®] [f}□[fN,Ì"o~^□^‰ð□œ] ['O,Ìf}∏[fN^Ê'u] [<u>ŽŸ,ĺf</u>]□[fN^Ê'u] ['S,Ä,Ìf}<u>□[fN,̉ð</u>⊓œ] [f}□[fN^ê——…] [,a,f,q,d,o...]

# [[]Ý'è] <u>f</u>][jj...][

$$\label{eq:constraint} \begin{split} & [\dot{Y}'ef] fif...][, \acute{E}, \acute{I}^{*}E^{o}, ifRf \} f''fh, ^{a}, \ , e, \ddot{U}, \cdot ]B \end{split}$$

 $\begin{array}{l} [\check{S}\hat{A} < \ll \Box \check{Y} \dot{e} ...] \\ [\check{S}g' \underline{f} \check{Z}q \cdot \hat{E} \Box \check{Y} \dot{e} ...] \\ [\underline{f} \underline{f} \underline{f} \underbrace{f} & f N \underline{f} & \Box [f Z \underline{f} \underline{b} \underline{f} g] \\ [\underline{f} o \underline{f} C \underline{f} g \underline{f} \Box ] \Box \underline{f} \\ [\underline{f} o \underline{f} C \underline{f} g \underline{f} \Box ] \Box \\ [\underline{f} A \underline{f} \underline{E} \underline{f} g \underline{f} \nabla \underline{f} \underline{b} \underline{f} g] \\ [\underline{f} r \underline{f} \underline{b} \underline{f} g \underline{f} C \underline{f} \Box \Box ] \\ [\underline{f} r \underline{f} \underline{b} \underline{f} g \underline{f} C \underline{f} \Box \Box ] \\ [\Box \setminus \dot{e} \dot{i} \cdot \dot{O} \Box W] \end{array}$ 

# [fEfBf"fhfE] f[]fjf...[[

 $fEfBf"fhfEf[]fjf...[[,É,l^ȉ^o,lfRf}f"fh,ª, ,è,Ü, ]B$ 

 $[\Box V, \mu, \xi f E f B f'' f h f E, \delta \check{S}],]$  $[\Box d, \ddot{E}, \ddot{A} \bullet \setminus \check{Z}']$  $[\Box \tilde{A}^{\infty \varrho}, \acute{E} \bullet \dot{A}, \times, \ddot{A} \bullet \setminus \check{Z}']$  $[\Box \P^{\infty} E, \acute{E} \bullet \dot{A}, \times, \ddot{A} \bullet \setminus \check{Z}']$  $[f A f C f R f'', ]\Box \circledast - \tilde{n}]$  $[f E f B f'' f h f E f T f C f Y \bullet \hat{a} \Box^3]$ 

# [fwf<fv] f□fjf...□[

 $fwf < fvf \Box fjf \dots \Box [, \acute{E}, \acute{I}^{\grave{E}} \&^{\varrho}, \grave{I}fRf \} f"fh, \overset{a}{=}, \ \grave{e}, \ddot{U}, \cdot \Box B$ 

[fgfsfbfN,ÌŒŸ∏õ] [fo∏[fWf‡f"∏î∙ñ]

## ftf@fCf<Œn<@"\

ftf@fCf<Œn,É,ĺ^ȉ⁰,Ì<@"\,ª, ,è,Ü,· $\square$ B

 $\begin{array}{c} \squarei, \grave{E}, \mu \square i \\ \square V < K \square \square \neg \\ \grave{S} J, ... \\ \bullet \hat{A}, \P, \acute{e} \\ \square \widetilde{a} \square', « \bullet \hat{U}' \P \\ -\frac{1}{4}' O, \eth \bullet t, \neg, \ddot{A} \bullet \hat{U}' \P ... \\ f_{f}'' f v f C f \square [f W, \grave{I} \bullet \hat{U}' \P ... \\ \bullet \hat{U}' \Pi, \mu, \ddot{A} \bullet \hat{A}, \P, \acute{e} \\ 'S, \ddot{A} \bullet \hat{A}, \P, \acute{e} \\ 'S, \ddot{A} \bullet \hat{U}' \P \\ 'S, \ddot{A} \bullet \hat{U}' \P \\ 'S, \ddot{A} \bullet \hat{U}' \Pi \\ 'S, \ddot{A}'' j \ddot{S} \amalg \\ \widehat{O} \square \tilde{U} v f \textcircled{E} fr f... \square [I \\ "I^{\uparrow}, \eth Z W' \grave{e}, \mu, \ddot{A} \land \acute{O} \square \"{U} ... \\ f v f \check{S} f'' f^{\frown}, \grave{I} \square \mathring{Y}' \grave{e} ... \\ 'S \bullet \hat{U}' \P \square -1 \\ 'S'' j \ddot{S} \square \square -1 \\ \square \square 1 \end{array}$ 

## **fJ□**[**f**\**f**<**^Ú" ® Œn**<**@***"*\

ſJ□[f\f<^Ú"®Œn,É,ĺ^ȉº,Ì<@"\,ª, ,è,Ü,·□B

fJD[f\f<D¶ <u>f]□[f\f<‰E</u> fj⊡[f\f<⊡ã fl□[f\f<‰º ff□[f^□æ"ª,É^Ú"® <u>ff⊡[f^---"ö,É^Ú" ®</u> <u>□s</u>□¶′[,É^Ú"® <u>□,'¬∏ã^Ú"®</u> □,'¬‰º^Ú"® <u>fy⊡[fWfAfbfv</u> <u>fy□[fWf\_fEf"</u> <u>″¼fy∏[fWfAfbfv</u> <u>"¼fy□[fWf\_fEf"</u> f‰fCf"fAfbfv f‰fCf"f\_fEf" Žw'èfAfhfŒfX,Ö^Ú"®... 

#### **'l'ðŒn**<@″∖

'l'ðŒn,É,ĺ^ȉº,Ì<@"∖,ª, ,è,Ü,·□B

'<u>l'ðf</u>,□[fhŠJŽn□^□<u></u> '<u>l'ð</u>□¶ '<u>l'ð‰E</u> '<u>l'ð</u>@ ff□[f^□æ"ª,Ü,Å'l'ð ff□[f^---"ö,Ü,Å'l'ð Is□¶'[,Ü,Å'l'ð □s‰E'[,Ü,Å'l'ð 'O,Pfy□[fW•ª'l'ð ŽŸ,Pfy□[fW•ª'l'ð '<u>´l^ĺ,ðŽw'è,µ,Ä'l'ð...</u> '<u>S,Ä'l'ð</u>

#### •Ò]WŒn<@"\

•Ò□WŒn,É,ĺ^ȉº,Ì<@"\,ª, ,è,Ü,·□B

 $\underline{\mathbb{C}^{3}, \underline{\acute{E}} - \underline{\acute{B}}, \cdot \\ , \underline{\acute{a}}, \underline{\acute{e}}' \cdot \underline{\acute{A}}, \underline{\mu} \\ \square \emptyset, \underline{\acute{e}} \cdot \underline{\acute{A}}, \underline{\acute{e}} \\ fRfs \square I \\ \underline{`'}, \underline{\acute{e}} \cdot \underline{\acute{t}}, \underline{-} \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{Z} \sim \\ \underline{\bullet} O \square W < O \mathring{L} \circ O \square W \\ \underline{\bullet} O \square W < O \mathring{L} \circ A \square \\ \underline{\bullet} O \square W < O \mathring{L} \circ A \square \\ \underline{\bullet} O \square W \\ \underline{\bullet} L f f f \textcircled{C} f b f g \ \hat{E}' u, \delta \square \land (\underline{\bullet}' \widehat{I} \bullet O \square W \\ \end{array}$ 

## ŒŸ**⊡õ⊡E'uŠ·Œn**<@"∖

ŒŸ∏õ∏E'uŠ·Œn,É,ĺ^ȉº,Ì<@"∖,ª, ,è,Ü,·∏B

 $\begin{array}{l} \underline{\mathbb{C}}\ddot{Y}[]\tilde{0}...\\ \underline{\mathbb{C}}\ddot{Y}[]\tilde{0}[i][\tilde{a} \cdot \hat{u}\underline{\mathbb{C}}\ddot{u}]]...\\ \underline{\mathbb{C}}\ddot{Y}[]\tilde{0}[i][f_{-}[f_{-}(]]...\\ \underline{\mathbb{C}}\ddot{Y}[]\tilde{0}[i]f_{-}][f_{-}f_{-}(]]...\\ \underline{\mathbb{C}}\ddot{Y}[]\tilde{0}[i]f_{-}][f_{-}f_{-}(]]...\\ \underline{\mathbb{C}}\dot{S} \cdot \hat{e}' \sqrt{\underline{\mathbb{C}}}\ddot{Y}[]\tilde{0}[i][\tilde{a} \cdot \hat{u}\underline{\mathbb{C}}\ddot{u}]]...\\ \underline{\mathbb{C}}\dot{S} \cdot \hat{e}' \sqrt{\underline{\mathbb{C}}}\ddot{Y}[]\tilde{0}[i]f_{-}][f_{-}f_{-}(]]...\\ \underline{\mathbb{C}}\dot{S} \cdot \hat{e}' \sqrt{\underline{\mathbb{C}}}\ddot{Y}[]\tilde{0}[i]f_{-}][f_{-}f_{-}[]]\tilde{a} \cdot \hat{u}\underline{\mathbb{C}}\ddot{u}]]...\\ \underline{\mathbb{C}}\dot{S} \cdot \hat{e}' \sqrt{\underline{\mathbb{C}}}\ddot{Y}[]\tilde{0}\\ \dot{U}\underline{\mathbb{C}}\ddot{Y}[]\tilde{0}\\ \dot{U}\underline{\mathbb{C}}\dot{Y}[]\tilde{0}\\ \dot{U}\underline{\mathbb{C}}\dot{Y}[]\tilde{0}\\ \dot{U}\underline{\mathbb{C}}\dot{Y}...\\ \dot{a}.f_{.}q.d.o...\\ fVff''fNf[]fXfNf[]][f_{...}\\ \end{array}$ 

#### **f**□**f**j**f**...**□**[**Œ**n<@"\

 $f \Box f j f ... \Box [ C n, É, Í^ȉ^{o}, Ì < @" \, <math>a^{a}$ , ,  $e, Ü, \cdot \Box B$ 

ft:::[fU:::[f:::]:,P ft:::[fU:::[f:::]:,Q ft:::[fU:::[f:::]:,R ft::[fU:::[f::]:]:,S ft::[fU::[f::]:[f:::]:,S ft::[fU::[f::]:[f:::]:,V ft::[fU::[f::]:[f:::]:,V ft::[fU::[f::]:[f:::]:,V ft::[fU::[f::]:[f:::]:,V ft::[fU::[f::]:[f::]:,V ft::[fU::[f::]:[f::]:,V ft::[fU::[f::]:[f::]:,V ft::[fU::[f::]:[f::]:,V ft::[fU::[f::]:[f::]:,V ft::[f::]:[f::]:,V ft::[f::]:[f::]:[f::]:,V ft::[f::]:[f::]:[f::]:,V ft::[f::]:[f::]:[f::]:,V ft::[f::]:[f::]:[f::]:,V ft::[f::]:[f::]:[f::]:[f::]:[f::]:]:,P ,QfXfgf::]:[f::]:[f::]:(g'',R)

## fEfBf"fhfEŒn<@"\</pre>

fEfBf"fhfEŒn,É,ĺ^ȉ⁰,Ì<@"∖,ª, ,è,Ü,·□B

## ,»,Ì'¼,Ì<@"\

,»,Ì'¼,É,Í^ȉº,Ì<@"∖,ª, ,è,Ü,·□B

 $f_{[[fN"o^{-}]^{o}o^{0}]} e f_{[[fN,Q"o^{-}]^{o}o^{0}]} e f_{[[fN,R"o^{-}]^{o}o^{0}]} e f_{[[fN,R"o^{-}]^{o}o^{0}]} e f_{[[fN,R"o^{-}]^{o}o^{0}]} e f_{[[fN,R"o^{-}]^{o}o^{0}]} e f_{[[fN^{\hat{E}'u}]} e f_{[[fN^{\hat{E}'u]]} e f_{[[fN^{\hat{E}'u]}]} e f_{[[fN^{\hat{E}'u]}$ 

## ŠÂ‹«□Ý'è□|•Ò□W,P

•Ò□WŽž,Ì"®□ì,ðfJfXf^f}fCfY,μ,Ü,·□B

<mark>□u□,'¼^Ú"®Žž,ÌfXfNf□□[f<□s□"□v</mark> □,'¼fXfNf□□[f<fo□[,Ìî^óf{f^f",ðfNfŠfbfN,μ,½Žž,ÉfXfNf□□[f<,・,é□s□",ðŽw'è,μ,Ü,·□B ,P□`,S,Ü,ÅŽw'è,Å,«,Ü,·□B

 $\label{eq:linear_constraint} \begin{array}{l} \label{eq:linear_constraint} \label{eq:linear_constraint} \label{eq:linear_constraint} \label{eq:linear_constraint} \label{eq:linear_constraint} \label{eq:linear_constraint} \begin{array}{l} \label{eq:linear_constraint} \la$ 

 $\label{eq:linearconductor} \begin{array}{l} \left[ u \textcircled{\columnature{C}{C}} u \textcircled{\columnature{C}{C}} \left[ u \textcircled{\columnature{C}{C}} u \textcircled{\columnature{C}{C}} \right] \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \columnature{C}{C} & (\pm, 1) \hline \columnature{C}{C} \\ (\pm, 1) \hline \colu$ 

[uEscf[]fjf...[][,ð—LŒø,É,·,é[]vf`fFfbfNf{fbfNfX ,±,Ì[]€-Ú,ðf`fFfbfN,·,é,Æ Esc fL[][‰Ÿ‰⁰,Å Esc f[]fjf...[[,ªŽÀ[]s,³,ê,Ü,·[]B ,½,¾,μ[]Aff[][f^'l'ð'†,É,ĺ"®[]ì,μ,Ü,¹,ñ[]B

[uEscfL][,Å'I'ð‰ð]œ,·,é]vf`fFfbfNf{fbfNfX ,±,Ì]€-Ú,ðf`fFfbfN,·,é,Æ'I'ð]ó'ÔŽž,É Esc fL][‰Ÿ‰º,Å'I'ð‰ð]œ,³,ê,é,æ,¤ ,É,È,è,Ü,·]B

[u'l'ôff□[f^,ÌfRfs□[Œã,É'l'ô‰ô□œ,·,é□vf`fFfbfNf{fbfNfX ,±,Ì□€-Ú,ôf`fFfbfN,·,é,Æ'l'ôff□[f^,ôfRfs□[,µ,½Žž,ÉŽ©"®"I,É'l'ô ‰õ□œ,³,ê,é,æ,¤,É,È,è,Ü,·□B

 $[]u • Û'¶Žž,ÉfAf"fhfDfofbftf@,ðfNfŠfA,·,é[]vf`fFfbfNf{fbfNfX$ ,±,Ì[]€-Ú,ðf`fFfbfN,·,é,ÆfhfLf...f[]f"fg•Û'¶Žž,ÉŽ©"®"I,ÉfAf"fhfDfofbftf@,ªfNfŠfA,³,ê[]uŒ³,Éß,·[]v[]u,â,è'¼,µ[]v,ª,Å,«,È,,È,è,Ü,·[]B

<mark>□ufTfufLfffŒfbfg,ð•\ަ,·,é□vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€-Ú,ðf`fFfbfN,·,é,ÆfR□[fh"ü—ÍŽž,É,Í•¶Žš•\ަfGfŠfA□A•¶Žš"ü— Íf,□[fhŽž,É,ÍfR□[fh•\ަfGfŠfA,ÌŠY"-‰Ó□Š,ÉfTfufLfffŒfbfg,ª•\ަ,³,ê,Ü,·□B

[uff[[f^'I'ðŽž,ÉfR[[fh]E•¶Žš<¤,É"½"]•\ަ,·,é[]vf`fFfbfNf{fbfNfX ,±,Ì[]€-Ú,ðf`fFfbfN,·,é,Æff[][f^'I'ðŽž,ÉfR[][fh•\ަfGfŠfA[]A•¶Žš•\ަfGfŠfA<¤,É'I'ð ‰Ó[]Š,ª"½"]•\ަ,³,ê,Ü,·[]B

[u•Ò[W"à—e,ðfŠfAf<f^fCf€,ÅfrfbfgfCf]][fW,É"½‰f,·,é[]vf`fFfbfNf{fbfNfX ,±,Ì[]€-Ú,ðf`fFfbfN,·,é,ÆfrfbfgfCf]][[fW•\ަŽž,É•Ò[]W"à—e,ªfŠfAf<f^fCf€ ,ÅfrfbfgfCf]][[fW,É"½‰f,³,ê,é—I,É,È,è,Ü,·]]B

<mark>□u,QfXfgf□□[fNfL□[,Ìf^fCf€fAfEfgŽžŠÔ□v</mark> ,QfXfgf□□[fNfL□[,â Esc f□fjf...□[,Å,Ìf^fCf€fAfEfgŽžŠÔ,ðŽw'è,µ,Ü,·□B ,±,±,ÅŽw'è,µ,½ŽžŠÔ,ª‰ß,¬,é,Æ,QfXfgf□□[fNf□fjf...□[,â Esc f□fjf... □[,ªŽ©"®"I,É•\ަ,³,ê,Ü,·□B

## ŠÂ‹«[]Ý'è[]•Ò[]W,Q

•Ò□WŽž,Ì"®□ì,ðfJfXf^f}fCfY,μ,Ü,·□B

<mark>□uftf@fCf<—š—ð□"□v</mark> ftf@fCf<f□fjjf…□[‰º•",É•\ަ,³,ê,é□Å<ߊJ,¢,½ftf@fCf<—š—ð,Ì•\ ަ□",ðŽw'è,µ,Ü,·□B ,P□`,P,U,Ü,ÅŽw'è,Å,«,Ü,·□B

**□ufLfffŒfbfg^Ê'u,ÌŽ©"®•œŒ³□vf`fFfbfNf{fbfNfX** ,±,Ì□€-Ú,ðf`fFfbfN,·,é,Æftf@fCf<—š—ð,É•\ަ,³,ê,Ä,¢,éftf@fCf<,ðŠJ,□Û,É'O‰ñ□I —¹Žž,ÌfLfffŒfbfq^Ê'u,𕜌³,µ,Ü,·□B

<mark>□uŒ»□Ý^Ê'u,ð□\'¢'Ì•Ò□WfAfhfŒfX,ÉŽ©"®□Ý'è□vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€-Ú,ðf`fFfbfN,·,é,Æ□\'¢'Ì•Ò□W,ðŠJ,¢,Ä,¢ ,é,Æ,«,ÉfEfBf"fhfE,ð□Ø,è'Ö,¦,é,ÆŽ©"®"I,ÉfLfffŒfbfg^Ê'u,ð□\'¢'Ì□æ"ªfAfhfŒfX ,Æ,µ,Ü,·□B

Output: Definition of the second sec

[u[ã]',«f,[[fhŽž,Ì--"öŽ©"®'}"ü[vf`fFfbfNf{fbfNfX ,±,Ì]€-Ú,ðf`fFfbfN,·,é,Æ[]ã]',«f,[][fhŽž,É,¨,¢,Ä,àff][[f^--"ö,Å"ü ĺ,μ,½ff][f^,ªŽ©"®"I,É•t‰Á[]i'}"ü[]j,³,ê,Ü,·[]B

□uf\_fCfif~fbfNf}□[fN□vf`fFfbfNf{fbfNfX

,±,Ì□€-Ú,ðf`fFfbfN,·,é,Æf\_fCfif~fbfN,Éf}□[fN‰Ó□Š,ª^Ú"®,µ,Ü,·□B á,¦,Î□Af}□[fN,³,ê,½ff□[f^,æ,è'O,̉Ó□Š,Å'}"ü,â□í□œ,ªŽÀ□s,³,ê,½□ê□‡□Af}□[fN ‰Ó□Š,ª,»,ê,É'Ήž,µ,ÄŽ©"®"I,É'OŒã,É,\_,ê,Ü,·□B,Â,Ü,è□AfAfhfŒfX,Å,Í,È,ff□[f^,»,Ì,à,Ì,Éf}□[fN,ð,Â,⁻,é□ó'Ô,É,È,è,Ü,·□B'A,µ□Af}□[fN,ð,Â,⁻,½ff□[f^,ª□í□œ, ³,ê,½□ê□‡,É,ĺf}□[fN,àŽ©"®"I,É□í□œ,³,ê,Ü,·□B

# ŠÂ‹«[Ý'è[|ftf@fCf‹

#### ftf@fCf<ŠÖŒW,ÌfJfXf^f}fCfY,ð,µ,Ü,∙∏B

## fofbfNfAfbfv

<mark>□ufofbfNfAfbfvftf@fCf<,Ì□ì□¬□vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€−Ú,ðf`fFfbfN,·,é,Æ•Ò□W'†,Ìftf@fCf<,ÌfofbfNfAfbfv,ð□ì□¬,μ,Ü,·

#### □ufofbfNfAfbfv□¢'ã□"□v

, ±, Ì□€–Ú, ÅfofbfNfAfbfv,ð‰½□¢'ã□ì□¬,·,é,©,ðŽw'è,µ,Ü,·□B Žw'è,Å,«,é,Ì,Í,P□`,X,Ü,Å,Å,·□B fofbfNfAfbfvftf@fCf<-¼í,Í,P□¢'ã–Ú,Í□uŒ³,Ìftf@fCf<-¼□v□{.bak,Æ,È,è□A ,Q□¢'ã-¼^È□~,Í□uŒ³,Ìftf@fCf<-¼□v□{.bk?□i?=,P□`,W□j,Æ,È,è,Ü,·□B ,¿,È,Ý,É□AfofbfNfAfbfvftf@fCf<,Ì□¢´ã,ª-,,,Ü,é,ÆŒÃ,¢,à,Ì,©,ç□ã□',«,³,ê,Ü,·□B

#### □ufofbfŊfAfbfvftfHf<f\_,ÌŽw'è□v

, ±, Ì□€–Ú,ðf`fFfbfN,·,é,ÆfofbfNfAfbfvftf@fCf<,ð□ì□¬,·,éftfHf<f\_,ðŽw'è,μ,Ü,·□B

f`fFfbfN, $\mu$ ,È,¢[]ê[]‡,É,ĺfofbfNfAfbfvftf@fCf<,ĺŒ³ftf@fCf<,Ì'¶[]Ý,·,éftfHf<f\_,É[]ì[]¬,³, ê,Ü,·[]B

## ftf@fCf<,Ì″r'¼∐§Œä

<u>ftf@fCf<,Ì"r'¼□§Œä</u>,ðŽw'è,µ,Ü,·□B [,µ,È,¢] •Ò⊓W'†,Ìft

•Ò́[W'+,Ìftf@fCf<,ð"r'¼[§Œä,µ,Ü,¹,ñ

•Ò[]W'†,Ìftf@fCf<,ð'¼,ÌfAfvfŠfP[[fVf‡f",©,ç[]'[]ž,Þ,±

,Æ,ð<ÖŽ~,µ,Ü,∙ ["Ç,Ý[]',«‹ÖŽ~] ,Æ,ð<ÖŽ~,µ,Ü,∙

[∏'∏ž,݋֎~]

 $\bullet \dot{O} \Box W' \dagger, \dot{I} f t f @ f C f <, \dot{\delta}` \frac{1}{4}, \dot{I} f A f v f \check{S} f P \Box [f V f \ddagger f", \stackrel{a}{=} "C, \acute{Y} \Box`, «, \cdot, \acute{e}, \pm$ 

## \_uffftfHf<fgftfHf<f\_,lŽw'è\_v</pre>

,±,İ□€– Ú,ðf`fFfbfN,∙,é,Æftf@fCf<,ð"Ç,Ý□ž,Ý,â□'□ž,Ý,ð,∙,é□Û,ÌffftfHf<fgftfHf<f\_,ðŽw'è,Å,« ,Ü,·□B

## $[]uf\check{S}f"fNftf@fCf\langle, I'\frac{1}{4}]U\check{S}J, []vf`fFfbfNf{fbfNfX}$

,±,l□€-Ú,ðf`fFfbfN,·,é,Æftf@fCf‹fl□[fvf"f\_fCfAf□fOf{fbfNfX,ÅfŠf"fNftf@fCf‹,ðŽw'è,·,é,Æ fŠf"fNftf@fCf‹,»,Ì,à,Ì,ðŠJ,«,Ü,·□Bf`fFfbfN,μ,È,¢□ê□‡,ĺfŠf"fN□æ,Ìftf@fCf‹,ðŠJ,«,Ü,· □B È □□Afbf%afbfO□•fbf□fbfv, â□u'— á□vŒo—B Åftf@fCf‹ ðŠL-

,È,¨[]Afhf‰fbfO[]•fhf[]fbfv,â[]u'—,é[]vŒo—R,Åftf@fCf<,ðŠJ,-]]ê[]‡,É,Í[]í,ÉfŠf"fNftf@fCf<,»,Ì,à,Ì,ðŠJ,«,Ü,·[]B

# ŠÂ‹«□Ý'è□|fEfBf"fhfE

fEfBf"fhfE,Ì•\ަ□ó'Ô,ðfJfXf^f}fCfY,μ,Ü,·□B

#### f[]fCf"fEfBf"fhfE,ÌfTfCfY[]E^Ê'u

$$\label{eq:spinor} \begin{split} &\langle \widetilde{N}^{\prime\prime} \ \end{subarray}^{\prime} \widetilde{\mathbb{R}}^{\prime} \widetilde{\mathsf{f}} \mathsf{E}^{\prime} \mathsf{f} \mathsf{E}^{\prime} \mathsf{f} \mathsf{B}^{\prime} \mathsf{f}^{\prime} \mathsf{f} \mathsf{f} \mathsf{F}^{\prime} \mathsf{f}, 1 & \label{eq:spinor}^{\prime} \mathsf{f} \mathsf{E}^{\prime} \mathsf{f} \mathsf{f} \mathsf{F}^{\prime} \mathsf{f}, 1 & \label{eq:spinor}^{\prime} \mathsf{f} \mathsf{E}^{\prime} \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f} \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f} \mathsf{f}, \mathsf{f}, \mathsf{f}, \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f} \mathsf{f}, \mathsf{f}$$

,¾,³,¢∏B

<mark>□ufhfLf…f□f"fg,ð□Å'剻,ÅŠJ,□vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€−Ú,ðf`fFfbfN,·,é,ÆfhfLf…f□f"fgfEfBf"fhfE,ð□Å'剻,μ,ÄŠJ,«,Ü,·□B

<mark>□ufhfLf…f□f"fg,Ìftf<fpfX•\ަ□vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€−Ú,ðf`fFfbfN,·,é,ÆfhfLf…f□f"fg,Ìftf@fCf<-¼,ðftf<fpfX,Å•\ަ,μ,Ü,·□B

<mark>□ufc[[f‹fo[[,Ì•Wަ[]∨f`fFfbfNf{fbfNfX</mark> ,±,Ì]€-Ú,ðf`fFfbfN,·,é,Æfc[[f‹fo[[,ð•\ަ,μ,Ü,·[]B

<mark>□ufXfe□[f^fXfo□[,Ì•\ަ□vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€-Ú,ðf`fFfbfN,·,é,ÆfXfe□[f^fXfo□[,ð•\ަ,μ,Ü,·□B

[ufrfbfgfCf[][[fW,ðfhfbfLf"fO‰Â"\,É,·,é[]vf`fFfbfNf{fbfNfX ,±,Ì[]€-Ú,ðf`fFfbfN,·,é,ÆfrfbfgfCf[][[fW,ª-{'ÌftfŒ[[f€fEfBf"fhfE,ÉfhfbfLf"fO ‰Â"\,É,È,è,Ü,·[]B

[]\'¢'Ì∙Ò[]Wfo[[,Ì^Ê'u

[\'¢'Ì•Ò[Wfo][,Ì[‰Šú"z'u,ðŽw'è,μ,Ü,·[B [[ã] [\'¢'Ì•Ò[Wfo][,ðftfŒ][f€fEfBf"fhfE]ã•Ó,É"z'u,μ,Ü,· [‰º] [\'¢'Ì•Ò[Wfo][,ðftfŒ][f€fEfBf"fhfE‰⁰•Ó,É"z'u,μ,Ü,· [ftf]][fefBf"fO] [\'¢'Ì•Ò[Wfo][,ðftf]][fefBf"fO"z'u,μ,Ü,· [ufhfbfLf"fO•s"\,Æ,·,é[vf`fFfbfNf{fbfNfX ftf]][fefBf"fOŽw'è,μ,Ä,¢,é[ê]‡,É,Ì,ÝŽw'è,Å,«,Ü,·]B ftf]][fefBf"fO,Ì,Ü,ÜfhfbfLf"fO•s"\,É,μ,Äf fCfAf∏fOf{fbfNfX,Ì—I,ÉŽq,¦,Ü,·

 $|\langle \dot{\phi}^{\dagger} | \dot{\phi} \rangle | W fo | [, ] fX fe | [f^fX \cdot \langle \check{Z} |$ 

\_u\_\'¢'ÌfAfCfef€•[],Ì"ä—¦,ð•ÛŽ□□vf`fFfbfNf{fbfNfX

,±,Ì□€-Ú,ðf`fFfbfN,·,é,Æ□\'¢'Ì•Ò□W,Å,ÌŠefAfCfef€□iŒ^□AfVf"f{f<-¼□A'I□j,Ì•□,Ì"ä— ¦,ð•ÛŽ□,µ,Ü,·□BfhfbfLf"fO□E"ñfhfbfLf"fO,É,æ,è'S'Ì,ÌfTfCfY,ª•Ï,í,Á,Ä,àŠefAfCfef€ ,Ì"ä—¦,͕ێ□,³,ê,é,Ì,Å^á~aŠ´,È,•Ò□W,Å,«,Ü,·□B

# ŠÂ‹«[]Ý'è[]|fL[[fAfTfCf"

 $fL_{[Š,,e^{+},\ddot{a},\delta f]}fXf^{f}fCfY,\mu,\ddot{U},\dot{B}$ 

Stirling,Å,ĺŠeŽífL□[,Ö,Ì<@"\Š",è"-,Ä,Ì•Ï□X,ª□s,¦,Ü,·□B

<mark>]ufL][]vfŠfXfgf{fbfNfX</mark> Š",è"−,Ä,ð•Ï]]X,Å,«,é,ÌfL]][,Ì^ê——,Å,·]]B

<mark>[]uCtrl[]vf`fFfbfNf{fbfNfX</mark> f`fFfbfN,∙,é,Æ Ctrl fL[][,ð"<sup>-</sup>Žž,ɉŸ‰º,µ,Ä,¢,é[]ê[]‡,ÌfL[][Š",è"-,Ä,Æ,È,è,Ü,·[]B

<mark>□uShift□vf`fFfbfNf{fbfNfX</mark> f`fFfbfN,·,é,Æ Shift fL□[,ð"<sup>-</sup>Žž,ɉŸ‰º,μ,Ä,¢,é□ê□‡,ÌfL□[Š",è"-,Ä,Æ,È,è,Ü,·□B

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<mark>□u□‰Šú□Ý'è□vf{f^f"</mark> fL□[Š",è"-,Ä,ð□‰Šú□ó'Ô□iWindows•W□€'l□j,É-ß,μ,Ü,·□B

<mark>□u"Ç,Ý□ž,Ý□vf{f^f</mark>" fL□[Š",è"-,Ä‹y,Ñf†□[fU□[f□fjf...□[,Ì□Ý'è,ðfL□['è‹`ftf@fCf‹,æ,è"Ç,Ý□o,μ,Ü,·□B f†□[fU□[f□fjf...□[,Ì□Ý'è"à—e,à•Ï□X,³,ê,é,Ì,Å'□^Ó,μ,Ä,,¾,³,¢□B

 $\begin{array}{l} & \square U_{,*}^{(0,\mu]vf{f^f}} \\ & \square V_{,k}^{(0,\mu]vf{f^f}} \\ & \square V_{,k}^{(0,\mu]vf{f^f}} \\ & \square V_{,k}^{(0,\mu]vf{f^f}} \\ & \square V_{,k}^{(0,\mu)} \\ & \square V_{,k}^{(0,\mu$ 

fL□[fAfTfCf",Ì□Ý'èŽè□‡ fL□[fAfTfCf",İ^ȉº,ÌŽè□‡,É,æ,è□Ý'è•Ï□X,Å,«,Ü,·□B 1.Š",è"-,Ä,ð•Ï□X,μ,½,¢fL□[,ðfL□[fŠfXfgf{fbfNfX,Å'l'ð,μ,Ü,· 2.Œ»□Ý,Ì,»,ÌfL□[,Ì<@"\,ª<@"\fŠfXfgf{fbfNfX,É•\ަ,³,ê,é,Ì,Å□D,Ý,Ì<@"\,É•Ï□X,μ,Ü,· 3.Š",è"-,Ä,ð•Ï□X,μ,½,¢fL□[,É,Â,¢,Ä1□`2,Ì□ì<Æ,ðŒJ,è•Ô,μ,Ü,· 4.•Ï□X,μ,½,¢fL□['S,Ä,É,Â,¢,Ä□Ý'è,ª□I—¹,μ,½,ç,n,jf{f^f",ð‰Ÿ‰⁰,μ,Ä□I—¹,μ,Ü,·

,QfXfgf[][[fNfL][,Ì]Ý'è•û-@]

Stirling,Å,Í,QfXfgf[][[fNfL][,Í,R,Â,Ü,Å'è<`,Å,«,Ü,·]B ,Ü, ][AfL][[]Ý'è,Å'æ,PfL][,ðŠ,,,è"-,Ä,½,¢fL][[]iCtrl + Q,È,Ç]],ðʻlʻð,µ[AŠ,,,è"-,Ä,é<@''\,É[]uf][fjf...][Œn]v,Ì[]u,QfXfgf[]][[fN<@''\,P]`,R]v,Ì,¢ , ,ê,©,ðŽw'è,µ,Ü,·]B ŽŸ,É[]A<u>[]uŠÂ<«[]Ý'è][ft][fU][f]fjf...</u> ][<u>[]v</u>fy[[fW,É^Ú"®,µ]AŽw'è,µ,½,QfXfgf]][[fN<@''\,Ìf][fjf...][,ðʻlʻð,µ]AŠ,,,è"-,Ä,½,¢<@''\,ðʻl'ð]E'ljÁ,µ,Ä'æ,QfL[[[]ifAfNfZf‰fŒ][f^]]jðŽw'è,µ,Ä,,¾,3,¢]B 'æ,QfL□[,ĺf†□[fU□[f□fjf...□[□€-Ú□Å'å□"□i,R,OŒÂ□j,Ü,Å'è<`,Å,«,Ü,·□B ,Ü,½□A,QfXfgf□□[fNfL□[,ĺ'æ,PfL□[‰Ÿ‰ºŒã□A<u>□uŠÂ<«□Ý'è□</u>] <u>•Ò□W"®□ì□v</u>,ÅŽw'è,µ,½ŽžŠÔ,ª‰ß,¬,é,ÆŽ©"®"I,É'æ,QfL□[f□fjf...□[,ª•\ ަ,³,ê,Ü,·□B

#### Escf[]fjf...[[,Ì[]Ý'è•û-@

Stirling, Å, Í Esc []{ Žw'èfL[[,É,æ,é Esc f[]fjf...[][,àfTf][][fg,µ,Ä,¢,Ü,·[]B ,Ü, ][A<u>[]uŠÂ‹«[]Ý'è[]]•Ò[]W"®[]][v</u>fy[][fW,Å[]uEscf[]fjf...[][,ð— Lο,É,·,é[]v,ðf`fFfbfN,µ,Ä,,¾,³,¢[]B ŽŸ,É[]A<u>[]uŠÂ‹«[]Ý'è[][ft[][fU[][f[]fjf...[][]v</u>fy[][fW,Å[]uEscf[]fjf... [[]v,ð'l'ð,µ[]AŠ",è"-,Ä,½,¢<@"\,ð'l'ð[E'ljÁ,µ,ÄfL][[]ifAfNfZf ‰fŒ[[f^[]j,ðŽw'è,µ,Ä,,¾,³,¢[]B fL[][,ĺft[][fU[][f]]fjf...[[]]€-Ú[]Å'å["[]i,R,OŒÂ[]j,Ü,Å'è<`,Å,«,Ü,·[]B ,Ü,½[]AEsc fL[][‰Ÿ‰<sup>Q</sup>Œã[]A<u>[]uŠÂ‹«[]Ý'è[]]•Ò[]W"®[]][]v</u>,ÅŽw'è,µ,½ŽžŠÔ,<sup>ª</sup> ‰ß,¬,é,ÆŽ©"®"I,É Esc f[]fjf...[[,<sup>a</sup>•\ަ,³,ê,Ü,·[]B ]–[]jEsc f[]fjf...[[,ĺff[][f^'lI'ð[]ó'Ô,Å,ĺ''®[]),µ,Ü,¹,ñ

#### DOSŒ^,Ì'I'ð'€⊡ì,É,Â,¢,Ä

Stirling,Å,ÍDOSŒ^,Ìʻl'ðʻ€□ì□iʻl'ðf,□[fhŠJŽn□E□I—¹,É,æ,éʻl'ð□j,àfTf|□[fg,μ,Ä,¢ ,Ü,·□B

□‰Šú□ó'Ô,Å,ÍWindowsŒ^,Ì'l'ð'€□ì□iShift □{fJ□[f\f‹fL□[,É,æ,é'l'ð□j,É,È,Á,Ä,¢ ,Ü,·□B

DOSŒ^,ÌʻIʻð,É,·,é[]ê[]‡,É,Í[]AʻI'ðf,[][fhfL[][]i,e,U,È,Ç[]j,ðŽw'è,µ,Ä,,¾,³,¢[]B ^ÈŒã[]AʻI'ðf,[][fhfL[][,ð‰Ÿ‰º,·,é,ÆʻI'ðf,[][fh,É,È,è[]AfJ[][f\ f<fL[][,Ì,Ý,ÅʻI'ð"Í^Í,ÌŽw'è,ª,Å,«,Ü,·[]B

# ŠÂ‹«[]Ý'è[][ft][[fU][f]]fjf...][

 $f\dagger \Box [f U \Box [f \Box f j f ... \Box [, \delta f ] f X f^f \} f C f Y, \mu, Ü, \Box B$ 

Stirling, Å, ĺf†[[fU][f]fjf...][, ª, P, OŒÂ, Ü, Å'è<`, Å, «, Ü, · ]B , Ü, ½ ]A, QfXfgf]][[fNfL][f]fjf...][, RŒÂ<y, Ñ Esc fL][f]fjf...][]AfRf"fefLfXfgf]]fjf... ][]if}fEfX‰Ef][fjf...][]j, ª,  $\pm$ ,  $\pm$ , Å'è<`, Å, «, Ü, · ]B

Šef□fjf…□[,Ì□Ý'è‰Â"\□Å'å□"□ifZfpfŒ□[f^ŠÜ,Þ□j,Í,R,OŒÂ,Å,·□B

<code><code>□uŒ»□Ý,Ìf□fjf...□[□Ý'è□vfRf"f{fffbfNfX□•fŠfXfgf{fbfNfX</sub> ŽÀ□Û,ÉŽw'è,³,ê,½f†□[fU□[f□fjf...□[,É•\ަ,³,ê,é□€-Ú,Ì^ê——,Å,·□B</code></code>

<mark><code><code>□u'ljÁ,Å,«,é<@"\□vfRf"f{fffbfNfX□•fŠfXfgf{fbfNfX</mark> ft□[fU□[f□fjf...□[,Ì•\ަ,É'ljÁ,Å,«,é□€–Ú,ÌŒn"□•Ê^ê——,Å,·□B</code></mark></code>

<mark>□ufZfpfŒ□[f^□vf{f^f"</mark> fZfpfŒ□[f^□i<æ□Ø,è□j,ð'ljÁ,μ,Ü,·□B

<mark>□u'ljÁ□vf{f^f"</mark> □u'ljÁ,Å,«,é□€-Ú□v,æ,è□€-Ú,ð'ljÁ,µ,Ü,·□B fAfNfZf‰fŒ□[f^,Ì□Ý'èf\_fCfAf□fO,ª•\ަ,³,ê,é,Ì,ÅfL□[,ðŽw'è,µ,Ä,,¾,³,¢□B

<mark>]u]í]œ]vf{f^f"</mark> ]uŒ»]Ý,Ìf]fjf…][]Ý'è]v,æ,è]€-Ú,ð]í]œ,μ,Ü,·]B

<mark>□u□ã,É^Ú"®□vf{f^f"</mark> f†□[fU□[f□fjf…□[•\ަ□€–Ú,Ì^Ê'u,ð,P,Â□ã,É•Ï□X,Å,«,Ü,·□B

<mark>□u‰º,É^Ú"®□vf{f^f"</mark> f†□[fU□[f□fjf...□[•\ަ□€-Ú,Ì^Ê'u,ð,P,‰º,É•Ï□X,Å,«,Ü,·□B

# ŠÂ‹«[)Ý'è[]|fc[[f<fo[[

 $fc [[f f 0][, \dot{I} \cdot \dot{Z}]"a - e, \delta f] fX f^{f} fC fY, \mu, \ddot{U}, \dot{U} B$ 

<mark>□uŒ»□Ý,Ìfc□[f<fo□[□Ý'è□vfŠfXfgf{fbfNfX</mark> ŽÀ□Û,Éfc□[f<fo□[,É•\ަ,³,ê,é□€-Ú,Ì^ê——,Å,·□B

<mark><code><code>□u'ljÁ,Å,«,é<@"\□vfRf"f{ffbfNfX□•fŠfXfgf{fbfNfX</code> fc□[f<fo□[,Ì•\ަ,É'ljÁ,Å,«,é□€-Ú,ÌŒn"□•Ê^ê——,Å,·□B</code></mark>

**□ufZfpfŒ□[f^□vf{f^f"** fZfpfŒ□[f^□i<æ□Ø,è□j,ð'ljÁ,μ,Ü,·□B

<mark>□u'ljÁ□vf{f^f"</mark> □u'ljÁ,Å,«,é□€-Ú□v,æ,è□€-Ú,ð'ljÁ,μ,Ü,·□B

<mark>]u]í]œ]vf{f^f"</mark> ]uŒ»]Ý,ÌfXfe][f^fXfo][[]Ý'è]v,æ,è]€-Ú,ð]í]œ,μ,Ü,·]B

```
<mark>□u□ã,É^Ú"®□vf{f^f"</mark>
fc□[f<fo□[•\ަ□€-Ú,Ì^Ê'u,ð,P,Â□ã□iŽÀ□Û,Ìfc□[f<fo□[•\ަ,Å,Í□¶□j,É•Ï□X,Å,«,Ü,·□B
```

<mark>□u‰º,É^Ú"®□vf{f^f"</mark> fc□[f<fo□[•\ަ□€–Ú,Ì^Ê'u,ð,P,‰º□iŽÀ□Û,Ìfc□[f<fo□[•\ަ,Å,Í ‰E□j,É•Ï□X,Å,«,Ü,·□B

## ŠÂ‹«[)Ý'è[]|fXfe[[f^fXfo[[

fXfe□[f^fXfo□[,Ì•\ަ"à—e,ðfJfXf^f}fCfY,μ,Ü,·□B

<mark>□uŒ»□Ý,ÌfXfe□[f^fXfo□[□Ý'è□vfŠfXfgf{fbfNfX</mark> ŽÀ□Û,ÉfXfe□[f^fXfo□[,É•\ަ,³,ê,é□€-Ú,Ì^ê——,Å,·□B

<mark>□u'ljÁ,Å,«,é□€-Ú□vfŠfXfgf{fbfNfX</mark> fXfe□[f^fXfo□[,Ì•\ަ,É'ljÁ,Å,«,é□€-Ú,Ì^ê——,Å,·□B

<mark>□u'ljÁ□vf{f^f"</mark> □u'ljÁ,Å,«,é<u>□</u>€-Ú□v,æ,è□€-Ú,ð'ljÁ,μ,Ü,·□B

<mark>□u□í□œ□vf{f^f"</mark> □uŒ»□Ý,ÌfXfe□[f^fXfo□[□Ý'è□v,æ,è□€-Ú,ð□í□œ,μ,Ü,·□B

<mark>\_u\_ã,É^Ú"®\_vf{f^f"</mark> fXfe\_[f^fXfo\_[[•\ަ]€-Ú,Ì^Ê'u,ð,P,Â\_ã\_iŽÀ\_Û,ÌfXfe\_[f^fXfo\_[[•\

ަ,Å,Í[]¶[]j,É•Ï[]X,Å,«,Ü,·[]B

<mark>□u‰º,É^Ú"®□vf{f^f"</mark> fXfe□[f^fXfo□[•\ަ⊡€-Ú,Ì^Ê'u,ð,P,‰º□iŽÀ□Û,ÌfXfe□[f^fXfo□[•\ަ,Å,Í ‰E□j,É•Ï□X,Å,«,Ü,·□B

#### fXfe□[f^fXfo□[□Ý'è‰Â"\□€-Ú

Caps Lock ∏ó'Ô,ð•\ަ,µ,Ü,· [Caps Lock •\ަ] Num Lock ,Ì∏ó'Ô,ð∙\ަ,µ,Ü,· [Num Lock  $\cdot \tilde{Z}$ ] Scroll Lock ,Ī∏ó'Ô,ð∙∖ަ,μ,Ü, [Scroll Lock •\Ž] ['}"ü□^□ã□',«•\ަ] '}"ü□^□ã□',«□ó'Ô,ð∙\ަ,μ,Ü,· [•Ò<u>□</u>₩<ÖŽ~•\ަ] •Ò□Ŵ<ÖŽ~□^‰{—\_f,□[fh□ó'Ô,ð•\ަ,μ,Ü, [•Ï∏Ī—L•\ަ] fhfLf...f[]f"fq,ª•Ï[]X,³,ê,½,©,Ç,¤,©,ð•\ަ,µ,Ü,· [fhfLf...f□f"fgfTfCfY•\ަ(10□i)] fhfLf…f∏f"fg,ÌŒ»∏Ý,ÌfTfCfY,ð10∏i∏",Å•∖ ަ,μ,Ü,· [fhfLf...f□f"fgfTfCfY•\ަ(16□i)] fhfLf…f∏f"fg,ÌŒ»∏Ý,ÌfTfCfY,ð16∏i∏",Å•∖ ަ,µ,Ü,∙ [fAfhfŒfX•\ަ(10⊓i)] œ»∏Ý^Ê'u∏ifAfhfŒfX∏i,ð10∏i∏",Å•\ަ,μ,Ü,· Œ»∏Ý^Ê'u∏ifAfhfŒfX∏i,ð16∏i∏",Å•\ަ,µ,Ü, [fAfhfŒfX•\ަ(16⊓i)] [BYTE'I•\ަ(10⊓i)]

$$\label{eq:constraint} \begin{split} & \textcircled{\baselineskip}{2mm} \mathbb{C} \begin{subarray}{l} & \textcircled{\baselineskip} \mathbb{C} \begin{subarray}{l} & \textcircled{\baselineski$$

Œ»[]Ý^Ê'u,©,ç,PfofCfg•ª,ðBYTE'l,ÉŒ©,½,Ä16[]i[]",Å•\ަ,μ,Ü,· [WORD'I•\ަ(10[]i)] 
$$\begin{split} & \textcircled{E} = [\hat{Y}^{\hat{E}'u, \mathbb{C}}, \varsigma, QfofCfg \bullet^{\underline{a}}, \delta WORD'I, \acute{E} \to [\hat{Z}, \ddot{A}16 \square i \square" \bullet \langle \check{Z} \rangle, \mu, \ddot{U}, \cdot \\ & [DWORD'I \bullet \langle \check{Z} \rangle, (10 \square i)] \end{split}$$

Œ»[]Ý^Ê'u,©,ç,SfofCfg•ª,ðDWORD'I,ÉŒ©,½,Ä10[]i[]"•\ަ,μ,Ü, [DWORD'I•\ަ(16[]i)]

$$\begin{split} & \textcircled{\sc w} [ \acute{f}^{2}u, \textcircled{\sc w}, \emph{\sc w} fofCfg \bullet^{a}, \emph{\delta}double'l, \acute{f} \textcircled{\sc w}, \emph{\sc $
# Šg'£Žq∙Ê□Ý'è□|Šg'£Žq

Šg'£Žq<y,ÑfRf⊡f"fg,Ì□Ý'è,ð,μ,Ü,·□B

[uŠg'£Žq□vfGfffBfbfgf{fbfNfX @•Ê□Ý'è,ð,·,éŠg'£Žq,ðŽw'è,µ,Ü,·□B \*□ifAfXf^fŠfXfN□j,â.□ifsfŠflfh□j,Í•K—v, ,è,Ü,¹,ñ□BŠg'£Žq,¾,⁻,ðŽw'è,µ,Ä,-,¾,³,¢□B

<mark>□ufRf□f"fg□vfGfffBfbfgf{fbfNfX</mark> Žw'èŠg'£Žq,É'Î,·,éŠÈ'P,ÈfRf□f"fg,ð"ü—ĺ,μ,Ü,·□B

# Šg'£Žq∙Ê□Ý'è□|•\ަ⊡ó'Ô

Šg'£Žq•Ê,É•\ަ[]ó'Ô,ðfJfXf^f}fCfY,μ,Ü,·[]B ,Ü,½[]A<u>Šg'£Žq</u>,Ì[]Ý'è,à[]s,¦,Ü,·[]B

#### []u,P[]s, ,½,è,Ì•\ަfofCfg[]"[]v

 $\label{eq:fhfLf...flfffgfEfBfffhfE,I,Pls, ,½,è,I•\Ž|fofCfg[]",ðŽw'è,µ,Ü,·[]B,S]`,U,S,ªŽw'è,Å,«,Ü,·[]B, ,È,¨[]A,±,±,ÅŽw'è,·,é,I,I‰æ-Ê•\Ž|[]ã,I'I,Å,·[]B ^o[]üŽž,É,I,P,UŒÅ'è,Æ,È,è,Ü,·[]B$ 

[ufAfhf@fX,à‰ifXfNf□[[f<,Ì'Î□Û,Æ,·,é□vf`fFfbfNf{fbfNfX ,±,Ì□€-Ú,ðf`fFfbfN,·,é,ÆfhfLf...f□f"fgfEfBf"fhfE,ÌfAfhf@fX•\ަ•",à‰ ifXfNf□□[f<,·,é,æ,¤,É,È,è,Ü,·□B</pre>

[uftf@fCf<fl[[fvf"Žž,É•Ò[W<ÖŽ~,Æ,·,é[]vf`fFfbfNf{fbfNfX ,±,Ì[]€-Ú,ðf`fFfbfN,·,é,Æfl[[[fvf"Žž,É•Ò[]W<ÖŽ~[]ó'Ô,Æ,È,è,Ü,·[]B f`fFfbfN,µ,È,¢[]ê[]‡,Í•Ò[]W<-‰Â[]ó'Ô,Æ,È,è,Ü,·[]B</pre>

<mark>□uftf@fCf‹fl□[fvf"Žž,É'}"üf,□[fh,Æ,·,é□vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€–Ú,ðf`fFfbfN,·,é,Æfl□[fvf"Žž,É'}"üf,□[fh,Æ,È,è,Ü,·□B f`fFfbfN,µ,È,¢□ê□‡,Í□ã□'f,□[fh,Æ,È,è,Ü,·□B

<mark>□uftf@fCf<fl□[fvf"Žž,É•¶Žš"ü—ĺf,□[fh,Æ,·,é⊡vf`fFfbfNf{fbfNfX</mark> ,±,Ì□€-Ú,ðf`fFfbfN,·,é,Æfl□[fvf"Žž,É•¶Žš"ü—ĺf,□[fh,Æ,È,è,Ü,·□B f`fFfbfN,µ,È,¢□ê□‡,ĺ□"'I"ü—ĺf,□[fh,É,È,è,Ü,·□B

#### fLfff‰fNf^[[fZfbfg

$$\begin{split} \dot{Z}w'\dot{e},\mu, \frac{1}{2}\dot{S}g' \pm \ddot{Z}q, \dot{I}fLfff&fNf^{[[}fZfbfg, \delta \ddot{Z}w'\dot{e},\mu, \ddot{U}, \cdot]B \\ [ASCII] fl^{[}fvf'' \check{Z}\check{z}, \acute{E}fLfff&fNf^{[]}[fZfbfg, \delta ASCII, \mathcal{A},\mu, \ddot{U}, \cdot] \\ [fVftfgJIS] fl^{[}fvf'' \check{Z}\check{z}, \acute{E}fLfff&fNf^{[]}[fZfbfg, \delta fVftfgJIS, \mathcal{A},\mu, \ddot{U}, \cdot] \\ [EUC] fl^{[}fvf'' \check{Z}\check{z}, \acute{E}fLfff&fNf^{[]}[fZfbfg, \delta EUC, \mathcal{A},\mu, \ddot{U}, \cdot] \\ [UNICODE] fl^{[}fvf'' \check{Z}\check{z}, \acute{E}fLfff&fNf^{[]}[fZfbfg, \delta UNICODE, \mathcal{A},\mu, \ddot{U}, \cdot] \\ [EBCDIC] fl^{[}fvf'' \check{Z}\check{z}, \acute{E}fLfff&fNf^{[]}[fZfbfg, \delta EBCDIC, \mathcal{A},\mu, \ddot{U}, \cdot] \\ [EBCIDK] fl^{[}fvf'' \check{Z}\check{z}, \acute{E}fLfff&fNf^{[]}[fZfbfg, \delta EBCDIC, \mathcal{A},\mu, \ddot{U}, \cdot] \\ \end{split}$$

$$\label{eq:linearconstructure} \begin{split} & \Box - \Box jfLfff\%fNf^{[[fZfbfg,lŽw'e,l^Èmove,l]]+,É-D]æ,Æ,È,e,Ü,\cdot\\ & \check{S}efhfLf...f_f"f"fg,Å-¾Ž|"I,É•I]X,\mu,½fLfff‰fNf^{[[fZfbfg]]} \\ & \check{S}g' _{E}Žq• E_DY'e,ÅŠY"-,\cdot,éŠg' _{E}Žq,lfLfff‰fNf^{[[fZfbfgŽw'e]]} \\ & \check{S}g' _{E}Žq• E_DY'e,Å_U,\cdot,×,Ä,lftf@fCf<_U,lfLfff‰fNf^{[[fZfbfgŽw'e]]} \end{split}$$

#### fAfhfŒfX•\Ž

fAfhfŒfX,Ì•\ަŠî□",ðŽw'è,μ,Ü,· [10□i□"] fAfhfŒfX,ð10□i□",Å•\ަ,μ,Ü,· [16□i□"] fAfhfŒfX,ð16□i□",Å•\ަ,μ,Ü,· fofCfgfl[[[\_[[

Žw'è,μ,½Šg'£Žq,ÌfofCfgfl□[f\_□[,ðŽw'è,μ,Ü,·□B fofCfgfl□[f\_□[,ĺfXfe□[f^fXfo□[,Å,Ì'I•\ަ,â□\'¢'Ì•Ò□W,Å,Ì'I•Ò□W,ɉe<¿,ð— ^,¦,Ü,·□B [fŠfgf<fGf"fffBfAf"(²ÝÃÙŒ`Ž®)] fofCfgfl□[f\_□[,ðfŠfgf<fGf"fffBfAf",Æ,μ,Ü,· [frfbfOfGf"fffBfAf"(ÓÄ۰׌`Ž®)] fofCfgfl□[f\_□[,ðfrfbfOfGf"fffBfAf",Æ,μ,Ü,·

$$\label{eq:linearconstructure} \begin{split} & \Box = \Box i f of Cfgfl \Box [f_\Box [, l^{`}E` & \circ^{?}, l \Box \ddagger, E \to D \Box & e, A \in , E, e, U, \cdot \\ & \check{S}efhfLf...f \Box f ``fg, A - ¾Ž|``l, E \circ ``I \Box X, \mu, ½f of Cfgfl \Box [f_\Box [ \\ & \check{S}g' £ Žq \circ E \Box Ý' e, A ŠY``-, \cdot, eŠg' £ Žq, l f of Cfgfl \Box [f_\Box [ Žw' e \\ & \check{S}g' £ Žq \Box Ý' e, A \Box u, \cdot, \times, Ä, l f t f @f Cf < \Box v, l f of Cfgfl \Box [f_\Box [ Žw' e \\ & \check{S}g' £ Žq \Box Ý' e, A \Box u, \cdot, \times, Ä, l f t f @f Cf < \Box v, l f of Cfgfl \Box [f_\Box [ Žw' e \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box u, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box U, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box U, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box U, \cdot, X \\ & \check{S}g' f Zq \Box Y = I A \Box Y \\ & \check{S}g' f Zq \Box Y = I A \Box Y \\ & \check{S}g' f Zq \Box Y = I A \Box Y \\ & \check{S}g' f Zq \Box Y = I A \Box Y \\ & \check{S}g' f Zq \Box Y = I A \Box Y \\ & \check{S}g' f Zq \Box Y \\ & \check{S}g' f Z \\ & \check{S}g' f Z \\ & \check{S}g' f Z \\ & \check{S}g' f Z \\ & \check{S}g' f Z$$

# Šg'£Žq•Ê[]Ý'è[]|[]F[]EftfHf"fg

Šg'£Žq•Ê,É□F□EftfHf"fg,ÌfJfXf^f}fCfY,μ,Ü,·□B ,Ü,½□A<u>Šg'£Žq</u>,Ì□Ý'è,à□s,¦,Ü,·□B

#### ff□[f^Ží•ÊfRf"f{f{fbfNfX

□F□Ý'è,μ,½,¢ff□[fˆ,ĬŽí•Ê,ðŽw'è,∙,éfRf"f{f{fbfNfX,Å,·□B ∏Ý'è,Å,«,é,Ì,Í^ȉº,Ì∏€–Ú,Å,· fwfbf ∏[•",Ì∏FŽw'è [fwfbf ∏[] [fAfhfŒfX] fAfhfŒfX∙\ަ∙",Ì□FŽw'è ff⊓[f^•\ަ•",Ì⊓FŽw'è [ff□[f^] [f}⊓[fN,P] f}∏[fN,P,Ì∏FŽw'è [f}□[fN,Q] f}⊓[fN,Q,Ì⊓FŽw'è f}⊓[fN,R,Ì⊓FŽw'è [f}⊓[fN,R] ĨäŠrŽÀ∏sŽž,Ì'Š^áŒÂ∏Š‹′²∙∖ަ∙",Ì∏FŽw'è ["äŠr'Š^áŒÂ∏Š] ∏\'¢'Ì•Ò∏WŽž,ÌŠY"-•"•ª,Ì∏FŽw'è [□\'¢'Ì•Ò□WŠY"-•"]

 $[]u \cdot ]Žš[FŽw'e]vf{f^f"}$ 

ff□[f^Ží•Ê,Å'I'ð,³,ê,Ä,¢,é□€–Ú,Ì•¶Žš□F,ðŽw'è,μ,Ü,·

<mark>□u"wŒi□FŽw'è□vf{f^f"</mark> ff□[f^Ží•Ê,Å'l'ð,³,ê,Ä,¢,é□€–Ú,Ì"wŒi□F,ðŽw'è,μ,Ü,·

<'²ff□[f^Žw'è

Stirling, Å, ί<'²•\ަ, μ, ½, ¢fR[[fh, É, Â, ¢, Ä"C^Ó, É'ljÁ[E[Ý'è]E[í[œ, Å, «, Ü, ·]B [Ý'è, ³, ê, ½fR[[fh,ÆŽw'èff[[f^]F, Ì^ê——,ªfŠfXfgf{fbfNfX,É•\ަ, ³, ê, Ü, ·]B **[u'ljÁ[]vf{f^f"** [V<K, É<'²ff][f^,ð'ljÁ, ·, é]Û, ɉŸ‰<sup>Q</sup>, μ, Ü, ·]B , Ü, \_]A<'²•\ަ, ·, éfR[[fh,ð, P, U]i[]",ÅŽw'è, μ,Ä,, ¾, ³, ¢]B , n, jf{f^f",ð‰Ÿ‰<sup>Q</sup>, μ]A'±, ¢,Ä]F,ðŽw'è, μ,Ä,,¾, ³, ¢]B

[]u[]í[]œ[]vf{f^f"

Šù,É"o~^,µ,Ä, ,é‹'²•\ަ□FŽw'è,ð□í□œ,µ,Ü,·□B ^ê——,æ,è□í□œ,µ,½,¢⊡€−Ú,ð'l'ð,µ,Ä,©,çf{f^f",ð‰Ÿ‰º,µ,Ä,,¾,³,¢□B

#### $[]u \cdot \dot{O}[]W[]vf{f^f"}$

Šù,É"o~^,µ,Ä, ,é<′2•\ަ□F,ð•Ï□X,µ,½,¢□ê□‡,ɉŸ‰º,µ,Ü,·□B □FŽw'èf\_fCfAf□fO,ª•\ަ,³,ê,é,Ì,Å<′2•\ަ□F,ð•Ï□X,µ,Ä,,¾,³,¢□B

\_uftfHf"fg[vf{f^f"

ftfHf"fgŽw'èfRf,f"f\_fCfAf□fO,ª•\ަ,³,ê□A•\ަ,·,éftfHf"fg,ªŽw'è,Å,«,Ü,·□B ,Ü,½□AfCf^fŠfbfN,âf{□[f<fh"™,Ì'•□ü,à—LŒø,Å,·□B ,È,¨□A,±,±,ÅŽw'è,·,é,Ì,͉æ-Ê,Å•\ަ,·,éftfHf"fg,Æ,È,è,Ü,·□B ^ó□üŽž,É,Í<K'èftfHf"fg,Å^ó□ü,³,ê,Ü,·□B []u[]‰Šú‰»[]vf{f^f"

ŠeŽí□F□Ý'è□A‹y,ÑftfHf"fg,ÌŽw'è,ð□‰Šú'l□iStirlingffftfHf‹fg'l□j,É-ß,µ,Ü,·□B ,È,¨□A‹'²ff□[f^Žw'è,Å'ljÁ,µ,½□Ý'è,É,Â,¢,Ä,ĺ‰½,à,µ,Ü,¹,ñ□B

#### □ufrfbfgfCf□□[fW,ÉŽw'è□F,ð"½‰f,³,¹,é□vf`fFfbfNf{fbfNfX

,±,Ì□€–Ú,ðf`fFfbfN,·,é,ÆfrfbfgfCf□□[fW,Éff□[f^•¶Žš□F□Aff□[f^"wŒi□F□A<'<sup>2</sup>•\ ަfR□[fh<y,Ñ□F,ª"½‰f,³,ê,Ü,·□Bf`fFfbfN,µ,È,¢□ê□‡,É,ĺ^È ‰<sup>°</sup>,ÌffftfHf<fg□F,ÅfrfbfgfCf□□[fW,<sup>ª</sup>•\ަ,³,ê,Ü,·□B

00h "'' 01h[`19h []...[F 20h[`7Fh []Ô 80h[]`FFh []•

## Žw'èfAfhfŒfX,Ö^Ú"®

Žw'è,³,ê,½fAfhfŒfX,Ö^Ú"®,µ,Ü,·□B

<mark>Œ»∏ÝfAfhfŒfX</mark> Œ»∏Ý,ÌfAfhfŒfX,ª∙\ަ,³,ê,Ü,·∏B

fAfhfŒfXŽw'è ^Ú"®,μ,½,¢fAfhfŒfX,ðŽw'è,μ,Ü,·□B ,Ü,½□AŒ»□Ý^Ê'u,©,ç,ÌflftfZfbfgŽw'è,à‰Â"\,Å,·□B fAfhfŒfX,ðŽw'è,·,é□Û,É□"'I,Ì'O,É '+',Ü,½,Í '-' ,ð,Â,¯,ć,ÆŒ»□Ý^Ê'u,©,ç,ÌflftfZfbfgŽw'è,ª,Å,«,Ü,·□B —á,¦,Î "+200",Æ,·,é,ÆŒ»□Ý^Ê'u,æ,è200"Ô'n•ª□æ,ÌfAfhfŒfX,É^Ú"®,μ,Ü,·□B 'A,μ□AflftfZfbfgŽw'è,ÉŠÖ,μ,Ä,à—LŒøfAfhfŒfX,Å•\ަ,³,ê,Ä,¢ ,é"Í^Í"à,ÉŒÀ,ç,ê,Ü,·□B

<mark>fAfhfŒfXfx□[fX</mark> fAfhfŒfX,ÌŽw'è,ð,P,O□i□A,P,U□i,Ì,Ç,¿,ç,Å"ü—ĺ,·,é,©Žw'è,μ,Ü,·□B

<mark>[]u,n,j]]vf{f^f"</mark> fWfff"fv,ðŽÀ]]s,µ,Ü,∙[]B

<mark>□ufLfff"fZf<□vf{f^f</mark>" fWfff"fv,ð'†Ž~,µ,Ü,·□B

$$\label{eq:linearconductor} \begin{split} & \boxed{ ufwf < fv \_ vf {f^f} } \\ & \textcircled{\sc black} \\ & \rule{\sc black$$

# ŒŸ∏õ

Žw'èff□[f^,É^ê'v,∙,é‰Ó□Š,ðŒŸ□õ,µ,Ü,·□B

### □uŒŸ□õff□[f^□vfRf"f{ffbfNfX

ŒŸ[]õff[][f^,ðŽw'è,μ,Ü,·[]B ,P,U[]iff[][f^,Ü,½,Í•¶Žš—ñ,ÅŽw'è,μ,Ü,·[]B ,P,U[]iff[][f^,Ì[]ê[]‡,É,Í~A'±•\<L-",ÍfffŠf~f^,Æ,μ,Ä"¼ŠpfXfy[][fX,ªŽg—p,Å,«,Ü,·[]B •¶Žš—ñ,Ì[]ê[]‡,É,ÍfhfLf...f[]f"fgfEfBf"fhfE,ÌŒ»[]Ý,ÌfLfff ‰fNf^[][fZfbfg,ÅŒŸ[]õ,μ,Ü,·[]B

#### ff□[f^Ží•Ê

ŒŸ□õff□[f^,Ìff□[f^Ží•Ê,ð,P,U□iff□[f^,Ü,½,Í•¶Žš—ñ,ðŽw'è,μ,Ü,·□B

#### ŒŸ<u>∏</u>õ"ĺ^ĺ

ff□[f<sup>^</sup>,ÌŒŸ□õ"ĺ^ĺ,ðŽw'è,μ,Ü,·□B [f]□[f\f<^Ê'u,©,ç] f]□[f\ f<^Ê'u,©,çff□[f^---"ö□A-",ĺff□[f^□æ"ª,Ü,Å,ðŒŸ□õ,μ,Ü,·□B [ff□[f^'S'Ì]

ff□[f^[]æ"ª,©,ç--"ö,Ü,Å[]A-",ĺff□[f^--"ö,©,ç[]æ"ª,Ü,Å,ðŒŸ[]õ,μ,Ü,·[]B ['l'ð"ĺ^ĺ"à] 'l'ð"ĺ^ĺ"à,Ì[]æ"ª,©,ç--"ö[]A-",ĺ--"ö,©,ç[]æ"ª,Ü,Å,ðŒŸ[] õ,μ,Ü,·[]B

□u'OŒŸ□õ□vf{f^f"

'O<code>[]i</code>[]ã<code>[]j•</mark>ûŒü,Éff<code>[][f^ŒŸ</code>[]õ,ðŽÀ<code>]</code>s,μ,Ü,·<code>]</code>B</code>

#### Ū'nŢÅÆÅŪQŪNĮ{t√t,

ŽŸ□i‰º□j•ûŒü,Éff□[f^ŒŸ□õ,ðŽÀ□s,µ,Ü,·□B

#### $\Box u \cdot \hat{A}, \P, \acute{\Box} vf{f^f}$

 $\mathbb{C}^{T}$   $\mathcal{C}^{T}$ 

#### $\Box ufwf \langle fv \Box vf \{ f^{f''} \}$

Œ»<u>□</u>ÝŒ©,Ä,¢,é,±,Ìfwf<fv,ð∙\ަ,μ,Ü,·<u>□</u>B

## •s^ê'vŒŸ<u>□</u>õ

Žw'èff□[f^,É^ê'v,µ,È,¢‰Ó□Š,ðŒŸ□õ,µ,Ü,·□B

•s<sup>^</sup>e'vfpf<sup>^</sup>[[f" •s<sup>^</sup>e'vfpf<sup>^</sup>[[f",ðŽw'è,μ,Ü,·]B ,P,U[]i,PfofCfgŒ`Ž®,Å[]uFF[]v,Ì—I,ÉŽw'è,μ,Ä,,¾,³,¢]]B

**ŒŸ□õ"Í^Í** ff□[f^,ÌŒŸ□õ"Í^Í,ðŽw'è,μ,Ü,·□B [fJ□[f\f<^Ê'u,©,ç] fJ□[f\ f<^Ê'u,©,çff□[f^---"ö□A-",Íff□[f^□æ"ª,Ü,Å,ðŒŸ□õ,μ,Ü,·□B [ff□[f^'S'Ì]

ff□[f^[]æ"ª,©,ç--"ö,Ü,Å[]A-",ĺff□[f^--"ö,©,ç[]æ"ª,Ü,Å,ðŒŸ[]õ,μ,Ü,·[]B ['l'ð"ĺ^ĺ"à] 'l'ð"ĺ^ĺ"à,Ì[]æ"ª,©,ç--"ö[]A-",ĺ--"ö,©,ç[]æ"ª,Ü,Å,ðŒŸ[] õ,μ,Ü,·[]B

<mark>]u'OŒŸ]]õ]]vf{f^f"</mark> 'O]i[]ã]]j∙ûŒü,Éff][[f^ŒŸ]]õ,ðŽÀ]]s,µ,Ü,·]]B

<mark>□uŽŸŒŸ□õ□vf{f^f"</mark> ŽŸ□i‰⁰□j•ûŒü,Éff□[f^ŒŸ□õ,ðŽÀ□s,μ,Ü,·□B

<mark>□u•Â,¶,é□vf{f^f"</mark> ŒŸ□õf\_fCfAf□fOf{fbfNfX,ð•Â,¶,Ü,·□B

<mark>[]ufwf<fv[]vf{f^f"</mark> Œ»[]ÝŒ©,Ä,¢,é,±,Ìfwf<fv,ð∙\ަ,µ,Ü,·]]B

### ′uŠ•

Žw'èff⊓[f^,ð'uŠ·ff⊓[f^,É⊓',«Š·,¦,Ü,·⊓B

∏;[′uŠ·]f\_fCfAf⊓fO ŒŸ∏õ∏E'uŠ·ff∏[f^,â'uŠ·f,∏[fh,ÌŽw'è,ð∏s,¢,Ü,·∏B

 $u \oplus Y = \delta ff = [f^{T} v fRf"f{fbfNfX$ 

ŒŸ[]õff[][f^,ðŽw'è,µ,Ü, []B ,P,U□iff□[f<sup>^</sup>,Ü,½,Í•¶Žš—ñ,ÅŽw'è,μ,Ü, □B  $,P,U\_iff\_[f^,]\_e\_+,é,i^A'\pm\bullet\backslash < L-",ifffŠf~f^, /E,\mu, Ä"^{1/4}ŠpfXfy\_[fX,ªŽg\_p,Å,«,Ü, ·\_B]$ •¶Žš—ñ,Ì□ê□‡,É,ÍfhfLf…f□f"fgfEfBf"fhfE,ÌŒ»□Ý,ÌfLfff ‰fNf^∏[fZfbfq,ÅŒŸ∏õ,μ,Ü,·∏B

ff⊓[f^Ží•Ê ŒŸ□õff□[f^,Ìff□[f^Ží•Ê,ð,P,U□iff□[f^,Ü,½,Í•¶Žš—ñ,ðŽw'è,μ,Ü,·□B

 $\Pi u'u\check{S} ff [[f^ ]vfRf"f{ffbfNfX]$ 

'uŠ·ff∏[f^,ðŽw'è,µ,Ü,·∏B ,P,U $\Pi$ iff $\Pi$ [f^,Ü,½,Í•¶Žš-ñ,ÅŽw'è,µ,Ü, $\Pi$ B  $,P,\bigcup\_iff\_[f^,i]\_e\_\ddagger, \acute{E}, \acute{I}^A' \pm \bullet \setminus L-", \acute{I}fffŠf~\overline{f}^, \mathcal{A};\mu, \ddot{A}"^{1}_{4}ŠpfXfy\_[fX, ^{a}Žg\_p, Å, «, Ü, \_B]$ •¶Žš—ñ,Ì∏ê∏‡,É,ÍfhfLf…f∏f"fgfEfBf"fhfE,ÌŒ»∏Ý,ÌfLfff ‰fNf^∏[fZfbfg,Å'uŠ·,μ,Ü,·∏B

,È,¨∏A'uŠ·ff∏[f^,ð-¢"ü—ĺ,Ì∏ê∏‡,É,ÍŠm"Ff∏fbfZ∏[fW,ª∏o,Ü,·∏B

,n,j,ð'l'ð,∙,é,ÆŒŸ□õff□[f^,ð□í□œ,∙,é<u>NULL'uŠ∙</u>,ªŽÀ□s,Å,«,Ü,·□B

ff∏[f^Ží•Ê

'uŠ·ff $\Box$ [f^,Ìff $\Box$ [f^Ží•Ê,ð,P,U $\Box$ iff $\Box$ [f^,Ü,½,Í•¶Žš—ñ,ðŽw'è,µ,Ü,  $\Box$ B

.ff□[f^∏æ"ª,©,ç--"ö,Ü,Å∏A-",ĺff□[f^--"ö,©,ç∏æ"ª,Ü,Å,ð'uŠ·,μ,Ü,·∏B

'l'ð"ĺ^ĺ"à,Ì∏æ"ª,©,c--"ö∏A-",ĺ--"ö,©,c∏æ"ª,Ü,Å,ð'uŠ·,

′uŠ·″ĺ^ĺ

fl⊓[f∖ f<ˆÊ'u, ©,çff□[fˆ––"ö□A–",ĺff□[fˆ□æ"ª,Ü,Å,ð'uŠ·,μ,Ü,·□B

'OΠiΠãΠi•ûŒü,Éff∏[f^ŒŸΠõΠE'uŠ·,ðŽÀΠs,μ,Ü,·ΠB

ŽŸ∏i‰º∏i∙ûŒü,Éff∏[f^ŒŸ∏õ⊓E′uŠ∙,ðŽÀ∏s,µ,Ü,·∏B

ff∏[f^,Ì′uŠ·″ĺ^ĺ,ðŽw′è,µ,Ü,·∏B

[ff□[f^'S'Ì]

['l'ð"ĺ^ĺ"à] μ,Ü,·∏B

[f]□[f\f<^Ê'u,©,c]

∏u'OŒŶ∏õ∏vf{f^f"

∏uŽŸŒŸ∏õ∏vf{f^f"

□u^ꊇ'uŠ·□vf{f^f"

□u'OŒŸ□õ□v□A□uŽŸŒŸ□õ□vf{f^f"‰Ÿ‰ºŽž,É,ĺŠY"ff[][f^,ðĒ©,Â,<sup>-</sup>,½]ê[]‡,É'uŠ·Šm"Ff\_fCfAf[]fO,ª•\ަ,³,ê'uŠ·,•,é,©,Ç,¤ ,©,ð,»,Ì"s"xŽw'è,μ,Ü,∙,ª□A□u^ꊇ'uŠ·□vƒ{ƒ^f",ð‰Ÿ

 $\Box ufLfff^{f}fZf < \Box vf{f^{f}}$ 

‰º, ·,é,Æ^ê∏ØŠm"F,¹, ∏A^ê<C,É'SŠY"−ff∏[f^,ð'uŠ·,μ,Ü,·∏B

′uŠ·f\_fCfAf∏fOf{fbfNfX,ð•Â,¶,Ü,·∏B

 $\Box u f w f < f v \Box v f {f^f"}$ œ»∏Ýœ©,Ä,¢,é,±,Ìfwf<fv,ð∙\ަ,μ,Ü,·∏B

□¡['uŠ·Šm"F]f fCfAf□fO ′uŠ·ŽÀ∏s,µ,ÄŠY"-ff∏[f^,ðŒŸ∏o,∙,é,Æ•\ަ,³,ê,Ü,·∏B

∏uŽÀ∏s∏vf{f^f"

ŠΥ"-‰ÓΠŠ,Ìff□[f^,ð'uŠ·,μ,ÄŽŸ,Ìff□[f^,ÌŒŸ□õ,É^Ú,è,Ü,·□B

\_ufXfLfbfv[]vf{f^f'

ŠY"–‰Ó∏Š,ĺ'uŠ·,¹, ,,ÉŽŸ,Ìff□[f^,ÌŒŸ□õ,É^Ú,è,Ü,·□B

∏u^ꊇ'uŠ·∏vf{f^f"

^ÈŒã,Ĩ^ê□ØŠm"F,¹, ,É^ê<C,É'SŠY"−ff□[f^,ð'uŠ·,μ,Ü, □B

\_ufLfff"fZf<\_vf{f^f"</pre>

ŠΥ"–‰ŐΠŠ,ð'uŠ·,¹, ΠΑ'uŠ·f,Π[fh,ðΠΙ—¹,μ,Ü,·ΠΒ

□¡['uŜ·□ó<μ]f\_fCfAf⊡fO <sup>^</sup>ꊇ'uŠ·Žž,Ė́•∖ަ,³,ê,Ü,·∏B'uŠ·∏ó<μ,ð∙\ަ,μ,Ü,·∏B

′uŠ·⊓″ Œ»□Ý,Ü,Å,É'uŠ·,ð□s,Á,½□",ª•\ަ,³,ê,Ü,·□B

 $\Box ufLfff^{f}fZf < \Box vf{f^{f}}$ 

^ꊇ'uŠ·Žž,Ė,ĺ'SŠY"−ff□[f^,ð'uŠ·,∙,é,Ü,Å□§Œä,ª–ß,è,Ü,¹,ñ,ªfLfff"fZf‹f{f^f",ð‰Ÿ ‰º, · , é, ± ,Æ,É,æ,è<∏§"I,É^ꊇ'uŠ · ,ð∏I—¹,μ,Ü, ·∏B

## "äŠr

,Q,Â,ÌfhfLf...f□f"fg,Ì"à—e,ð"äŠr,µ,Ü,·□B

<mark>□¡["äŠrf\_fCfAf□fO]</mark> "äŠr'Î□ÛfhfLf…f□f"fg,ÌŽw'è,ð□s,¢,Ü,·□B

<mark>□u"äŠr'Î□ÛŽw'è□vfŠfXfgf{fbfNfX</mark> "äŠr'Î□Û□æ,ÌfhfLf…f□f"fg,ðŽw'è,μ,Ü,·□B

<mark>□u,n,j□vf{f^f"</mark> "äŠr,ðŽÀ□s,µ,Ü,·□B

<mark>□ufLfff"fZf<□vf{f^f"</mark> "äŠr,ð'†Ž~,μ,Ü,·□B

<mark>□ufwf<fv□vf{f^f"</mark> Œ»□ÝŒ©,Ä,¢,é,±,Ìfwf<fv,ð•\ަ,μ,Ü,·□B

[]**¡**['Šˆá‰Ó]Šˆê——]ƒ\_ƒCƒAƒ□ƒO ,Q,Â,̃hƒLƒ…ƒ□ƒ"ƒg,ð"äŠr,μ,½Œ<‰Ê,ð∙\ަ,μ,Ü,·□B

<mark>□u"äŠrŒÂ□Š,Ì<'²•\ަ□vf{f^f"</mark> "äŠr'Î□Û,Ì,Q,Â,ÌfhfLf...f□f"fg,Ì'Š^áŒÂ□Š,ð<'²•\ަ,μ,ÄŠm"F,μ,â,·,,μ,Ü,·□B

 $ufVf"fNfDfXfNfDD[f<0vf{f^f"}$ 

"äŠr'Î□Û,Ì,Q,Â,ÌfhfLf...f□f"fg,ðfVf"fNf□fXfNf□□[f<"o~^,μ'Š^áŒÂ□Š,ðŠm"F,μ,â,·,-,μ,Ü,·□B

<mark>'Š^á‰Ó□Š^ê——</mark> 'Š^á‰Ó□Š□A'Š^á□I—¹‰Ó□Š□A'Š^áfTfCfY,É,Â,¢,Ä^ê——Œ`Ž®,Å•\ަ,μ,Ü,·□B 'S,Ä,P,U□i□",Å•\ަ,³,ê,Ü,·□B

<mark>□u□ØʻÖ□vf{f^f"</mark> "äŠr,µ,½,Q,Â,ÌfhfLf…f□f"fg"<sup>-</sup>Žm,ÅfAfNfefBfu,ÈfEfBf"fhfE,ð□Ø,èʻÖ,¦,Ü,·□B

<mark>□ufWfff"fv□vf{f^f"</mark> 'Šˆá‰Ó□Šˆê——,Å'l'ð,³,ê,Ä,¢,é□€–Ú,ÌfAfhfŒfX,ÉfWfff"fv,μ,Ü,·□B 'Šˆá‰Ó□Š,Ì"Í^Í,ª'l'ð□ó'Ô,Æ,È,è,Ü,·□B

<mark>□u•Â,¶,é□vf{f^f"</mark> 'Š^á‰Ó□Š^ê——f\_fCfAf□fO,ð•Â,¶,Ü,·□B

## fVf"fNf□fXfNf□□[f<

 $fVf"fNf[]fXfNf[][[f<,\cdot,\acute{e}fEfBf"fhfE,l"o^{[]}e‰\delta]]ce,\delta[]s,¢,Ü,\cdot]B fVf"fNf[]fXfNf[][[f<,\acute{e}"o^{,\cdot,\acute{e},}EGEw]]Ý•O]]W'+,lfEfBf"fhfE,ªfXfNf[][[f<,\mu,½]]e[]‡,É" o^{fEfBf"fhfE,a"^Sú"l,ÉfXfNf][][[f<,\mu,Ü,\cdot]B fVf"fNf]]f(f,\mu,Ü,f)]B fVf"fNf][][f<,\mu,Ü,f]B fVf"fNf][][f<,\mu,U,f]A fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fVf"fNf][][f<,\mu,U,f]B fV[f]B fV"fNf][][f<,\mu,U,f]B fV"fNf][][f<,\mu,U,$ 

 $\label{eq:linear_strain} \begin{array}{l} & \label{eq:linear_strain} \\ & \label{eq:l$ 

<mark>□ufVf"fNf□,·,éfEfBf"fhfE□vfŠfXfgf{fbfNfX</mark> fVf"fNf□fXfNf□□[f<,É"o<sup>~</sup>^,³,ê,Ä,¢,éfEfBf"fhfE,Ì<sup>^</sup>ê——,Å,·□B

**UUW**'**CWÁUIVf**{**f**^**f**"

$$\label{eq:lasses} \begin{split} & []ufVf"fNf[],\mu,\dot{E}, \mbox{\sc f}EfBf"fhfE[]vf\mbox{\sc s}f\mbox{\sc f}f\mbox{\sc f}f\mbox{\sc f}f\mbox{\sc f}f\mbox{\sc s}f\mbox{\sc f}f\mbox{\sc s}f\mbox{\sc s}f$$

 $[]u]^{a}$   $\delta$  c  $vf{f^{f}}$ 

□ufVf"fNf□,·,éfEfBf"fhfE□vfŠfXfgf{fbfNfX,Å'l'ð,³,ê,Ä,¢ ,éfEfBf"fhfE,ðfVf"fNf□fXfNf□□[f<,Ì'Î□Û,©,çŠO,μ,Ü,·□B

 $[u'S&\delta]cc[vf{f^f"}$ 

$$\label{eq:linear_state} \begin{split} & \Box ufVf``fNf\Box,\cdot,\acute{efEfBf}``fhfE\BoxvfŠfXfgf{fbfNfX,\acute{E}``o``^,³,\acute{e},\ddot{A},¢\\ ,\acute{e}`S,\ddot{A},lfEfBf``fhfE,ðfVf``fNf\BoxfXfNf\Box\Box[f<,l``lDÛ,©,çŠO,µ,Ü,·DB \end{split}$$

### ,a,f,q,d,o

•¡[]"ff[][f^,©,çŽw'èff[][f^,É^ê'ν,·,é‰Ó[]Š,ðŒŸ[]õ,μ,Ü,·[]B

<mark>□¡[,a,f,q,d,o]f\_fCfAf□fOf{fbfNfX</mark> ,a,f,q,d,o,ÌŠeŽí□ðŒ□,ðŽw'è,μ,Ü,·□B

 $u \oplus Y = \delta f = [f^{T}] v f R f f f f f h f N f X$ 

ŒŸ□õff□[f^,ðŽw'è,μ,Ü,·□B ,P,U□iff□[f^,Ü,½,Í•¶Žš—ñ,ÅŽw'è,μ,Ü,·□B ,P,U□iff□[f^,Ì□ê□‡,É,Í □u0D 0A□v,Ì—I,É"¼ŠpfXfy□[fX,Å‹æ□Ø,Á,Ä,,¾,³,¢ •¶Žš—ñ,Ì□ê□‡,É,ÍfLfff‰fNf^□[fZfbfg,àŽw'è,μ,Ü,·□B

<mark>ff□[f^Ží•Ê</mark> ŒŸ□õff□[f^,Ìff□[f^Ží•Ê,ð,P,U□iff□[f^,Ü,½,Í•¶Žš—ñ,ðŽw'è,μ,Ü,·□B

<mark>□uŒŸ□õ,·,éftf@fCf‹,ÌŽí—Þ□vfRf"f{f{fbfNfX</mark> ff□[f^,ÌŒŸ□õ,·,éftf@fCf‹,ÌŠg'£Žq,ðŽw'è,μ,Ü,·□B □u\*.???□v,Ì—I,ÉŽw'è,μ,Ä,-,¾,³,¢□B"¼ŠpfZf~fRf□f"";",Å‹æ□Ø,ê,Ε¡□",ÌŠg'£Žq,ðŽw'è,Å,«,Ü,·□B

ftfHf<f\_

BGREP ,ÌŒŸ□õʻÎ□Û,Æ,∙,éftf@fCf‹,Ìʻ¶□Ý,∙,éftfHf‹f\_,ðŽw'è,μ,Ü,∙□B ‰E'¤,Ìf{f^f",ð‰Ÿ‰⁰,∙,é,Æ[ftfHf‹f\_,ÌʻI'ð]f\_fCfAf□fO,ÅʻI'ð,Å,«,Ü,∙□B

\_ufTfuftfHf<f\_,à@Ÿ[]õ, ,é[]vf`fFfbfNf{fbfNfX</pre>

,±,Ì□€– Ú,ðf`fFfbfN,∙,é,ÆŒŸ□õʻÎ□ÛftfHf<f\_,ÉfTfuftfHf<f\_,ª'¶□Ý,∙,é□ê□‡□AfTfuftfHf<f\_ ‰º,à□Ä<A"I,ÉŒŸ□õ,μ,Ü,·□B

**□ufVfXfef€'®□«ftf@fCf**<,**ĺŒŸ□õ,µ,È,¢□vf`fFfbfNf{fbfNfX** ,±,Ì□€–Ú,ðf`fFfbfN,·,é,ÆŒŸ□õftf@fCf<,Ì,¤,¿□AfVfXfef€'®□«,Ì,Â,¢ ,½ftf@fCf<,ÍŒŸ□õ'Î□Û,©,çŠO,·Ž–,ª,Å,«,Ü,·□B

<mark>□u,n,j□vf{f^f</mark>" Žw'è,³,ê,½□Ý'è,Å BGREP ,ðŽÀ□s,µ,Ü,·□B

<mark>□ufLfff"fZf<□vf{f^f"</mark> BGREP,ð□s,í,\_,É-ß,è,Ü,·□B

<mark><code><code>□ufwf<fv</code><code>□vf{f^f</mark>"</mark> Œ»<code>□</mark>ÝŒ©,Ä,¢,é,±,Ìfwf<fv,ð•\ަ,µ,Ü,·<code>□</mark>B</mark></code></code></code></code>

<mark>□¡[,a,f,q,d,oŒŸ□õ□ó<μ]ƒ\_fCfAf□fO</mark> ,a,f,q,d,o,ÌŒŸ<u>□</u>õ<u>□</u>ó<μ,ð•\ަ,μ,Ü,·</u>]B

#### ŒŸ<u></u>]õftf@fCf< $\textcircled{E} = [Y \textcircled{Y} \textcircled{Y} \textcircled{0} \v{0}' +, ]ftf@fCf <- \frac{1}{4}, \eth \bullet (\mathring{Z}, \mu, \bigcup, \bigcup B)$

<mark>ff□[f^Œ□□"</mark> Œ»□Ý,Ü,Å,ÉŒŸ□o,μ,½ŠY"-ff□[f^,ÌŒ□□",ð•\ަ,μ,Ü,·□B

**□ufLfff"fZf<□vf{f^f"** ,a,f,q,d,oŽž,É,ĺ'SŠY"-ftf@fCf<,ðŒŸ□õ,·,é,Ü,Å□§Œä,ª-ß,è,Ü,¹,ñ,ªfLfff"fZf<f{f^f",ð‰Ÿ‰º,·,é,±,Æ,É,æ,è<□§"l,É,a,f,q,d,o,ð□l— <sup>1</sup>,µ,Ü,·∏B

## 'I'ð"Í^Í,Ì**□‰Šú‰**»

 $\label{eq:limit} `l`ð"Í^Í, l] ff [] [f^, ð Žw' e f p f^ [] [f", Å [] & Šú & », \mu, Ü, \cdot [] B$ 

<mark>'I'ð"Í^Í</mark> ff□[f^,Ì'I'ð"Í^Í,ª,P,U□i,Å•\ަ,³,ê,Ü,·□B

<mark>□‰Šú‰»ff□[f^</mark> □‰Šú‰»ff□[f^fpf^□[f",ðŽw'è,µ,Ü,·□B ,P,U□i,PfofCfgŒ`Ž®,Å□uFF□v,Ì—I,ÉŽw'è,µ,Ä,,¾,³,¢□B

<mark>[]u,n,j[]vf{f^f"</mark> Žw'è,³,ê,½ff[][f^,Å'l'ð"Í^Í,ð[]‰Šú‰»,µ,Ü,·[]B

<mark>□ufLfff"fZf<□vf {f^f"</mark> 'I'ð"Í^Í,Ì□‰Šú‰»,ð□s,í, ֻ,É–ß,è,Ü,·□B

# Šg'£Žq∙Ê∏Ý'è

ftf@fCf<Šg'£Žq•Ê,Ì□Ý'è,ð,µ,Ü,·□B

<mark>Šg'£Žq^ê——fŠfXfgf{fbfNfX</mark> Œ»∏Ý"o<sup>~</sup>^,³,ê,Ä,¢,éŠg'£Žq,ðˆê——•\ަ,μ,Ü,·∏B

<mark>□u•Â,¶,é□vf{f^f</mark>" Šg'£Žq•Ê□Ý'èf\_fCfAf□fO,ð•Â,¶,Ü,·□B

<mark>□u□Ý'è□vf{f^f"</mark> Œ»□Ý'l'ð,³,ê,Ä,¢,éŠg'£Žq,Ì□Ý'èf\_fCfAf□fO,ðŠJ,«,Ü,·□B

**\_\_u'ljÁ\_\_vf{f^f**" \_\_V<K,ÉŠg'£Žq,ð"o<sup>~</sup>^,μ,Ü,·□B ffftfHf<fgff□[f^,ĺŒ»□Ý<sup>^</sup>ê——'†,Å'l'ð,³,ê,Ä,¢,éŠg'£Žq,Ì"à—e,ª<sup>^</sup>ø,«Œp,ª,ê,Ü,·□B

<mark>[]u[í[]œ[]vf{f^f"</mark> Œ»[]Ý'l'ð,³,ê,Ä,¢,éŠg'£Žq,Ì[]Ý'è,ð[]í[]œ,µ,Ü,·[]B 'A,µ[]AŠî-{[]€-Ú[]i[]u,·,×,Ä,Ìftf@fCf<[]v,Æ•\ަ,³,ê,Ä,¢,éff[][f^[]j,Í[]í[]œ,Å,«,Ü,¹,ñ[]B

$$\label{eq:linear_states} \begin{split} & \label{eq:linear_states} & \label{eq:linear_states} & \label{eq:linear_states} \\ & \label{eq:linear_states} & \label{eq:linea$$

## **□\'¢'Ì•Ò□Wfo□[**

ff□[f^,ð'è<`,³,ê,½□\'¢'Ìfef"fvfŒ□[fg,É"– ,Ä,Í,ß□A□\'¢'Ì,Ìf□f"fo□[,Æ,µ,ÄŽQ□Æ□E•Ï□X,Å,«,Ü,·□B

### $[]u[]^{+}(\dot{c}^{+})-\frac{1}{4}]vfRf^{+}f{fbfNfX}$

[]\'¢'Ì'è<`ftf@fCf<,æ,è"Ç,Ý[]ž,ñ,¾[]\'¢'Ìfef"fvfŒ[[fg,Ì^ê——,Å,·[]B ^ê——'†,æ,è[]\'¢'Ì-¼,ð'I'ð,·,é,±,Æ,É,æ,èfhfLf... f[]f"fg,Ìff[[[f^,,ÌŽw'èfAfhfŒfX,©,ç[]\'¢'Ì,É"-,Ä,Í,ß,ç,ê,Ü,·[]B

### []æ"<sup>ª</sup>fAfhfŒfX

\_\'¢'Ìff□[fˆ,Æ,μ,Ä^μ,¤□æ"ªfAfhfŒfX,ª∙\ަ,³,ê,Ü,·□B

### $[]u << []vf{f^{"}}$

$$\begin{split} & (\mathbf{E}) = (\mathbf{Y}, \mathbf{\hat{I}}) = \mathbf{\hat{e}}^{*} = \mathbf{\hat{f}} A f h f (\mathbf{E} f X, \mathbf{\hat{e}}, \mathbf{\hat{e}} Z w' \mathbf{\hat{e}}) \land (\mathbf{\hat{e}}^{*}) \land (\mathbf{\hat{f}} T f C f Y) = \mathbf{\hat{f}} A f h f (\mathbf{E} f X, \mathbf{\hat{o}}^{*}) \land (\mathbf{\hat{f}}, \mathbf{\hat{e}}) \land (\mathbf{\hat{f}}, \mathbf{\hat{f}}) \land (\mathbf{\hat{f}}) \land (\mathbf{\hat{f})} \land (\mathbf{\hat$$

## ]u<]vf{f^f"

□æ"<sup>a</sup>fĂfĥfŒfX,ðŒ»□Ý,Ì^Ê'u,æ,è,PfofCfg'O,É^Ú"®,μ,Ü,·□B

## []u^Ú"®[]vf{f^f"

ff[[f^,Ì]æ<sup>"a</sup>fAfhfŒfX,ð•Ï[]X,μ,Ü,·[]B fAfhfŒfXŽw'è–",ĺf}[[fN"o~^^Ê'u,Ì,Ç,¿,ç,©,ðŽw'è,μ,Ü,·[]B fAfhfŒfXŽw'è,Ì[]ê[]‡,É,Í"C^Ó,ÌfAfhfŒfX,ð"ü—ĺ,Å,«,Ü,·[]B f}[[fN"o~^Ê'u,Ì]ê[]‡,É,Í"o~^[]ï,Ý,Ìf}[[fN^Ê'u,æ,è'I'ð,Å,«,Ü,·[]B

## $||u>||vf{f^f'}|$

□æ"<sup>a</sup>fÁfhfŒfX,ðŒ»□Ý,Ì^Ê'u,æ,è,PfofCfgŒã,É^Ú"®,μ,Ü,·□B

## $[u>]vf{f^f'}$

Ē»□Ύ,Ì□æ̃́"ªſĂfhfŒfX,æ,èŽw'è□\'¢'Ì,ÌfTfCfY•ªfAfhfŒfX,ð□æ,É^Ú"®,μ,Ü,·□B ,±,ê,É,æ,è,P,ÂŽŸ,ÌfŒfR□[fh,Ì"à—e,ð^ø,«'±,«•Ò□W,Å,«,Ü,·□B

### □u•Â,¶,é□vf{f^f"

□\'¢'Ì•Ò□Wfo□[,ð•Â,¶,Ü,·□B

### \_\'¢'Ìf□f"fo□[^ê——

[\'¢'Ìf[]f"fo[[,»,ê,¼,ê,É,Â,¢,Ä[uŒ^[v[ufVf"f{f<-¼[v[u'l[v,ÌŠe[]€-Ú,ª•\ ަ,³,ê,Ü,·[]B [ufVf"f{f<-¼[v,ĺf]f"fo[[,ª"z—ñ,â[\'¢'Ì,Ì]ê[]‡,ÉfcfŠ[[ŠJ•Âf{f^f",ª•\ަ,³,ꎩ— R,ÉŠJ•Â,Å,«,Ü,·[]B [u'l[v,ĺf}fEfX,ÅfNfŠfbfN,μ,½,èfGf"f^[[fL[][,ð‰Ÿ‰⁰,·,é,± ,Æ,Å'I,Ì•Ï[]X,ª,Å,«,Ü,·[]B ,Ü,½]Af}fEfX‰EfNfŠfbfN,É,æ,è•\ަ,³,ê,éf[]fjf...[[,©,ç•\ަŠî[]",ðŽw'è,Å,«,Ü,·[]B

## $(\dot{\dot{t}})^{+} O W f X fe [f^{f} X$

### [\'¢'Ì•Ò[]Wfo[][,Å"ÆŽ©,ÉfXfe[][f^fX•\ަ,ª‰Â"\,Å,·[]B •\ަ,·,é,Ì,Í^ȉº,Ì[]€–Ú,Å,·[]i[]¶'¤,©,ç) •Ò[]W<ÖŽ~f}[[fN fLfff‰fNf^[][fZfbfg fofCfgfl][[f\_][

### ′~[]**ìŒ** []**E-Æ**[]Ó

Stirling,ĺftfŠ[[f\ftfgfEfFfA,Æ, $\mu$ ,Ü,·[]B'~[]ìŒ,ĺ[]ìŽÒ,Å, ,é<u>.c.c.r.Q[]iŒã";~a[]d[]</u>i,ª—L, $\mu$ ,Ü,·[]B

-{fvf□fOf‰f€,ðŽg—p,μ,½,±,Æ,É,æ,è"□¶,μ,½,¢,©,È,é□áŠQ□E'¹ŠQ□i á,¦StirlingŽ©'Ì,ÌfofO,É,æ,é,à,Ì,¾,Æ,μ,Ä,à□j,É,¨,¢,Ä,à□A□ìŽÒ,Í^ê□Ø,Ì□Ó"C,ð∙‰ ,í,È,¢,à,Ì,Æ,μ,Ü,·□BŠeŽ©,Ì□Ó"C,É,¨,¢,ÄŽg—p,μ,Ä,,¾,³,¢□B

"Á,ÉfofCfifŠfGfffBf^,Æ,¢,¤fvf□fOf‰f€ ,Ì□«Ž¿□ã□AŽÀ□sftf@fCf<□AfVfXfef€ftf@fCf<"™,Ì•Ò□W,à□s,¦,Ü,·,ª□A•Ï□X,·,é'O,Éf ofbfNfAfbfv,ðŽæ,é,È,Ç,µ,Ä□\•ª'□^Ó,ð,µ,Ä,,¾,,3,¢□B

,Ü,½□A□ìŽÒ,ÍStirling,ÌfofO,ª"Œ©,³,ê,½□ê□‡,É,¨,¢ ,Ä,à□A,»,Ì□C□³□Afo□[fWf‡f"fAfbfv,Ì<`-±,ð∙‰,í,È,¢,à,Ì,Æ,µ,Ü,·□B

# ŠÂ<«

"®∏ìŠÂ‹«

Stirling ,ĺWindows95[]AWindows98[]AWindows NT4.0[]ã,Å"®[]ìŠm"F,μ,Ä,¢ ,Ü,·[]B

# ŠJ″ŠÂ‹«

f}fVf"□F Ž©□ìŒÝŠ·<@ Celeron300A f□f,fŠ□F 128MB ,n,r□F Windows98 Œ¾Œê□F Visual C++ Ver.6.0

### "][|Ú[]E[]'[]Ð,Ö,ÌŽû˜^,É,Â,¢,Ä

[]y"]]Ú[]E[]Ä"z•z]z '¼flfbfg,Ö,Ì"]]Ú,â[]Ä"z•z,ÉŠÖ,µ,Ä,Í^ȉº,Ì[]ðŒ[],É[]],¤ŒÀ,è,ÍŽ©—R,É[]s,Á,Ä,¢ ,½,¾,¢,Ä,⁻,Á,±,¤,Å,·[]B,È,¨[]A"]][Ú,ðŠó-],³,ê,é[]ê[]‡,É,ÍŽ-'O,É<u>~A—[</u>,ð,,¾,³,é,æ,¤ ,¨Šè,¢,µ,Ü,·[]B-"[]A"]]Ú[]æ,Å,Ìfo[[fWf‡f"fAfbfv"™,Ì[]^— ],Í"]][ÚŽÒ,Ì•û,ª[]Ó"C,ðŽ[],Á,Ä[]s,Á,Ä,,¾,³,¢]]B

$$\begin{split} & \Box EfA \Box [f] f Cfu, \hat{I} ``a - e, \delta \bullet \ddot{I} \Box X, \mu, \dot{E}, \varphi, \pm, \mathcal{A} \\ & \Box E & c - \tilde{-} U ``I, \&, \hat{I} ``i'', \Box S ^ \times, \delta \Box S, í, \dot{E}, \varphi, \pm, \mathcal{A} \\ & \Box E ' ^ \Box \dot{I} & \bullet \backslash \check{Z} \, , \delta \bullet \ddot{I} \Box X, \mu, \dot{E}, \varphi, \pm, \mathcal{A} \end{split}$$

 $\begin{array}{l} \exists y Z G Z = 0 & \text{````,} A, i = 0 & \text{```,} A, i = 0 & \text{``,} A, i = 0$ 

•Ï□X—š—ð

Ver.1.31 1999/06/23 [E^ó[]üfvfŒfrf...[[,ðŽÀ[]s,·,é,ÆfNf]][[fYŽž,É,¨,©,µ,,È,éfofO,ð]]C[]³ [Ef}fEfX'I'ð,É,æ,éfXfNf]][[f<,Å[]'nº[]s,Ì-³Œø,ÈŒ... ,Ü,Å'I'ð,³,ê,Ä,µ,Ü,¤fofO,ð]]C[]³ [EfLfffŒfbfg^Ê'u,Ì•œŒ³,ðŽw'è,µ,Ä,¢,é]]Û,Éfhf ‰fbfO[]•fhf][fbfv,Å<N"®,·,é,ÆŽ€,ÊfofO,ð]]C[]³ [E[]\'¢'Ì•Ò]]W,Å,QŽŸŒ³"z—ñ,ðŽw'è,·,é,ÆftfŠ][fY,·,é,±,Æ,ª, ,éfofO,ð]]C[]³ [E,»,Ì'¼]]A[]×,©,¢]]C[]³

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[E•O]W'+, İftf@fCf<, ª'¼, İfvf□fZfX,Å•Ï□X,³,ê,½□ê□‡,É•Ê-¼•Û'¶¥"äŠrŽÀ□s,·,é<@"\,ð'ljÁ □E"Í^Í,ðŽw'è,µ,Ä^ó[¨u,·,é<@"\,Ì'ljÁ □Ef\_f"fvfCf□□[fW,ðftf@fCf<,É•Û'¶,·,é<@"\,Ì'ljÁ □Ef\_fCfif~fbfNf}□[fN<@"\,Ì'ljÁ □EfLfffŒfbfg^Ê'u,ÌŽ©"®•œŒ³fXfCfbf`,ð'ljÁ □EfLfff@fCf<-š-ð□",ÌŽw'è<@"\,ð'ljÁ □EfLfff@fbfg^Ê'u,ð□\'¢'Ì•O]W,Ì□æ"ªfAfhfŒfX,ÉŽw'è,·,é<@"\,ð'ljÁ □EfLfff@fbfg^Ê'u,ð□\'¢'Ì•O]W,Ì□æ"ªfAfhfŒfX,ÉŽw'è,·,é<@"\,ð'ljÁ □EfAff@fCf<,í□[íhŽž,Ì--"öŽ©"®'}"ü,ÌŽw'èfXfCfbf`,ð'ljÁ □EfAfEfgfvfbfgfyfCf",Ì"àe□i,a,f,q,d,o,ÌŽÀ□sŒ<‰Ê□j,ðfNfŠfbfvf{□[fh,ÉfRfs□[,·,é<@"\,Ì'ljÁ</p>

```
[]Ef}[[fN,Q[]Af}[][fN,R,Ì'¼[]Ú"o~^<@"\,ð'ljÁ
```

□E□\'¢'Ì•Ò□Wfo□[,ðfAfNfefBfu,É,μ,½Žž,ÉfLfffŒfbfg^Ê'u,É^Ú"®,∙,éfXfCfbf`,ð'Ç ‰Á

□E□\'¢'Ì•Ò□WŠefAfCfef€,Ì•□,Ì"ä—¦,ð•ÛŽ□,·,éfXfCfbf`,ð'ljÁ  $\square E \square (\dot{c}' \dot{l} \bullet \dot{O} \square W, \dot{A} \bullet \P Z \dot{S} \square \tilde{n}, \dot{l}' / 2 \square \dot{U} \bullet \dot{O} \square W, \dot{A} f T f \square [fg]$  $\Pi \in \mathbb{N}^{(c)}$ □E□\'¢'Ì'è<`ftf@fCf<,Å"ú-{Œê□€-Ú-¼,ðfTfl□[fg</p> □E□\'¢'Ì'è<`ftf@fCf<,ÅfRf□f"fg,ðfTfl□[fg □Efc□[f<fo□[,É^ó□üfvf@frf...□[fAfCfRf",ð'ljÁ</pre>  $[]Efc[][f < fo[][, ] \bullet (Ž], ], [0, \mu], E, eZ, ], efofO, \delta \square C \square^3$ \_EfLfff‰fNf^\_[fZfbfg,âfofCfgfl□[f □[,ð•Ï□X,μ,Ä,àftf@fCf<•Û'¶Žž,Éß,Á,Ä,μ,Ü,¤Ž−,ª, ,éfofO,ð∏C∏<sup>3</sup> [E,a,f,q,d,o,A],  $e,E' \cdot, eftfHf \cdot f, \delta Z w' e, \cdot, e, E E T [0, A, *, e, efofO, \delta C ]^3$ ∏Eftf@fCf<,ªŠJ,¢,Ä,¢,È,¢∏ó'Ô,Å•¶Žš—ñŽw'è,Å,a,f,q,d,o,ð,©,⁻,é,ÆfLfff  $%fNf^{[fZfbfg,a-c]Y'e,E,E,efofO,d]C^{3}$  $\Box$  Ef}fEfX,É,æ,é'l'ðŽž,ÌŽ©"®fXfNf $\Box$ [f<,Ì"® $\Box$ ),ª,¨,©,µ,,È,éfofO,ð $\Box$ C $\Box$ <sup>3</sup>  $[]E[]^{(+)}(\dot{q}^{i}) \bullet \dot{O}[]Wfo[[,]fhfbfLf"fO,\mu,\ddot{A},\dot{q},\dot{e},\mathcal{A}, \langle \dot{e},\mathcal{A}, \langle \dot{e},\dot{A}, \langle \dot{e},\dot{e},\dot{A}, \langle \dot{e},\dot{e},\dot{A}, \langle \dot{e},\dot{e},\dot{A}, \langle \dot{e},\dot{e},\dot{A}, \langle \dot{e},\dot{e},\dot{A}, \langle \dot{e},\dot{A}, \rangle \rangle \rangle \rangle ]$ <sup>1</sup>, ·, éfofO, ð⊓C⊓<sup>3</sup> □EfTfCfY,<sup>a</sup>,OfofCfg,ÌŠù'¶ftf@fCf<,<sup>a</sup>•Ò□W,Å,«,È,¢fofO,ð□C□<sup>3</sup>

#### Ver.1.20 1999/02/02

 $[E_{(i)}^{(i)} O_{W,i}ftf_{[i]}[fefBf"fOf_fCfAf_fOfo_{[]}]$ □E□\'¢'Ì•Ò□W'è<`ftf@fCf<,Ì□Ä"C□ž<@"\,Ì'C‰Á</p>  $\|E\| \langle \dot{c}^{\dagger} \bullet \dot{O} \| W, \hat{A}f \} \| [fN"o" \land \mathbb{C} \hat{A} \| \dot{S}, \dot{E}fWfff"fv, \cdot, \dot{e} \langle @" \rangle, \dot{I}' C \& \dot{A}$ □EfLfff‰fNf^□[fZfbfg,É EBCDIC□AEBCIDK ,ð'ljÁ □EfofCfqfl□[f □[,ÌŽw'è,ð'ljÁ ∏E"äŠr'Š^áŒÂ∏Š‹'²∙\ަ‹@"\,Ì′ljÁ □EfVf"fNf□fXfNf□□[f‹<@"\,Ì′ljÁ ΠΕ'uŠ·Žž,ÉŽw'èffΠ[f^,ðΠίΠœ, , éNULL'uŠ·<@"\,Ì'C‰Á ∏EfWfff"fvf\_fCfAf∏fO,ÅŒ»∏Ý^Ê'u,©,ç,ÌflftfZfbfg<sup>^</sup>Ú"®<@"∖,Ì'ljÁ □EfŠf"fNftf@fCf<,ðŠl,fXfCfbf`,Ì'C‰Á</p> □EfXfe□[f^fXfo□[,É float□Adouble 'l,ð'ljÁ []Ef}[[fNff][f^,Ì"wŒi□FŽw'è<@"\,Ì'C‰Á</pre> □EŒŸ□õ□E'uŠ·ff□[f^,ð"¼ŠpfXfy□[fX,Å<æ□Ø,ç,È,,Ä,à"FŽ<sup>-</sup>,•,é,æ,¤⊓C⊓<sup>3</sup> □Eftf@fCf<fI□[fvf"f fCfAf□fO,É"o~^ftf@fCf<f^fCfv,ð•\ަ,·,é,æ,¤□C□³ □E□Ø,èŽæ,è□EfRfs□['€□ì,ÅŽ€,Ê,±,Æ,ª, ,éfofO,Ì□C□³ []EWindows98,ÅfGfNfXfvf[][[f‰[[,Æ"<sup>-</sup>Žž<N"®, ·,é,ÆŽ€,ÊfofO,Ì]C[]<sup>3</sup>  $\Box Eftf@fCf < \Box a^{*}, iff \Box [f^, a^{*} C Y \Box \delta, A^{*} fqf bfq, \mu, b, cfofO, i \Box C \Box^{*}]$  $[]E, \rangle, \dot{I}'^{1}_{4}[]A[] \times, \odot, \dot{E}[]C[]^{3}$ 

### Ver.1.10 1998/10/27

□EfrfbfgfCf□□[fW•\ަ<@"\,ð'C‰Á</pre> □EfTfufLfff@fbfq•\ަ<@"\,ð'C‰Á</p> []E'l'ð"ĺ^ĺ,ĺfR[][fh[]E∙¶Žš—¼"½"]‹@"∖,ð'C‰Á  $\square Ef \Pi f N \cdot \hat{Z} = \Pi f n \cdot \hat{Z}$ □Ef}□[fN^ê——f\_fCfAf□fO,Å"C^ÓfAfhfŒfX,ðf}□[fN"o~^,Å,«,é,æ,¤,É□C□³ □EŪ\'¢'Ì•Ò□W,Ìff□[f^'è<`,ÅffftfHf<fg•\ަŠî□",ð□Ý'è, ,é,æ,¤,É□C□³ □E□\'¢'Ì•Ò□W,ÌfRf"fefLfXfqf□fif…□[,Å^ꊇ□AŒÂ•Ê,ÌŠî□"•\ަ,ª,Å,«,é,æ,¤ .ÉПСП<sup>3</sup>  $[]Ef\check{S}[][fhf]f"f\check{S}[][ftf@fCf<,\delta\check{S}], []Û, \acute{E}" @ []ìf, [][fh, l\check{S}m"F, \delta" "ü, ê, é, æ, ¤, \acute{E}[]C[]^3]$  $[]E'I'ð''Í^Í, ðfXfe[[f^fXfo][,É•\ަ, \cdot, é, æ, ¤, É]]C[]<sup>3</sup>$  $\Box E \bullet O \Box W' \dagger, i f t f @ f C f <, a^{4}/4, i f A f v f S, A \bullet i \Box X, a^{3}, a^{4}/2 \Box U, E \Box A ``C, Y \Box Z, Y, a S ``T, c, a, a ``L'$ ,É⊓C⊓³ □E•¶Žš"ü—ĺf,□[fh,Å"Á'è,Ì•¶Žš,ª"ü—ĺ,Å,«,È,¢fofO,ð□C□<sup>3</sup> □EfhfLf…f□f"fgfEfBf"fhfE,ªŠJ,¢,Ä,¢,È,¢Žž,É Alt fL□[‰Ÿ ‰º,Ì"»'è,ð,µ,È,¢fofO,ð□C□³  $\square E \square (\dot{c}) \dot{c} \dot{l} \bullet \dot{O} \square W, \dot{\partial} \bullet \square ", \dot{l} f h f L f ...$ f\_f"fg,ÅŽÀ\_s,,é,Æfef"fvf@\_[fg,ª"ñ\_d"o~^,³,ê,éfofO,ð\_C\_3  $[]EShift[]{[]«,Å'I'ð,\mu,È,ª,cfXfNf[]][[f<,\mu,½]]Û,É'I'ð‰æ-Ê,ª--],ê,éfofO,ð]C]]^3$ 

 $\Box E^{(A'e,l)} f f f f f f g, A'S S p \bullet \PZ S, l \bullet Z L^{2}, e, e f o f O, a \Box C B^{3}$ 

 $[]E, \rangle, \dot{I}'^{1}_{4}[]A[] \times, @, \dot{E}[]C[]^{3}$ 

Ver.1.01 1998/09/09

□E'l'ð<@"\,É'O,Pfy□[fW∙ª'l'ð□AŽŸ,Pfy□[fW∙ª'l'ð,ð'ljÁ

\_\_EfL□[fĂfTfCf",É Čtrl□AShift ‰Ÿ‰ºŽž,Ì PageUp□APageDown fL□[,ÌŠ",è"-,Ä,ð'ljÁ

[]ĒŠg′£Žq∙Ê[]Ý′è,ÉfAfhfŒfX,Ì∙\ަŠî[]"Žw′è,ð′ljÁ

□EfXfe□[f^fXfo□[,ÅfTfCfY□AfAfhfŒfX□AfofCfg□Af□□[fh□Af\_fuf‹f□□[fh,ÌŠî□"•Ê•\ ަ,ð'ljÁ

□ÉfRf}f"fhf‰fCf",Å,Ì•;□"ftf@fCf<Žw'è,É'Ήž

\_\_\_\_EWindowsNT,Å^ó\_üţfvf@frf...\_[Žž,ÉfzfC\_[f<fXfNf\_[][f<,·,é,Æ"½‰ž,μ,È,-,È,éfofO,ð[]C[]³

□ĒŪ\'¢'Ī•ÒŪWŽž,É'¼,ÌfAfvfŠ,ÉftfH□[fJfX,ð^Ú, ,ÆŽ€,ÊfofO,ð□C□³

 $\Box E" Ç, Y \Box Ž, Pftf@fCf <, lfpfX - \frac{1}{4}, É, P \bullet ¶ ŽŠ, lftfHf < f_, ª, , é, Æ" Ç, Y" ò, l, µ, Ä, µ, Ü, ¤fofO, ð$  $<math display="block"> \Box C \Box^{3}$ 

 $\label{eq:constraint} \begin{array}{l} & \label{eq:constraint} \mathbb{E}^{*}(\hat{A}^{*}) = \mathbb{E}^{*}(\hat{Z}^{*}), \\ & \label{eq:constraint} \mathbb{E}^{*}, \hat{A}^{*}) = \mathbb{E}^{*}(\hat{Z}^{*}), \\ & \label{eq:constraint} \mathbb{E}^{*}(\hat{Z}^{*}), \\ &$ 

Ver.1.00 1998/08/25

[]‰ŒöŠJ

~**A**—[][æ

,²^ÓŒ©[]A,²—v-][]AfofOfŒf|[][fg"™, ,è,Ü,µ,½,ç^ȉ⁰,Ì~A— []]æ,Ü,Å[]¥"ñ,²^ê•ñ,,¾,³,¢[]B,¨'Ò,¿,µ,Ä,¢,Ü,·]]B

E-mail : dds2@air.ne.jp

^ȉº,ÌfAfhfŒfX,É,Äfz□[f€fy□[fW,ðŒöŠJ,μ,Ä,¨,è,Ü,·□B,±,¿,ç,à,²—~—p‰º,³,¢

http://www2c.airnet.ne.jp/dds2

E-Mail : dds2@air.ne.jp

<@"\[]Ý'è[]ã[]A-¾Ž¦"I,É[]u‰½,à[]s,í,È,¢[]vŽ-,ðŽw'è,·,é,à,Ì,Å,·[]B

\_\_\_\_\_K,ÉfhfLf...f\_\_f"fg,ð\_]ì[]¬,μ,Ü,·[]B \_\_]ì[]¬,³,ê,½fhfLf...f\_]f"fg,Í[]u[]V<K[]-[]v[]i[]-,Í'Ê,μ"Ô[]†[]j,Æ,¢,¤-¼,Å[]ì[]¬,³,ê,Ü,·[]B Šù'¶,Ìftf@fCf<,ðŠJ,«,Ü,·□B <u>□uŠÂ<«□Ý'è□|ftf@fCf<</u>,Ìftf@fCf<,Ì"r'¼□§Œä,ÅŽw'è,³,ê,½"r'¼f,□[fh,ÅŠJ,«,Ü,·□B

$$\begin{split} \check{S}J,\pm,&\&,&\mathcal{E},\mu,\overset{1}{\sim}ftf@fCf<,^{a}f\check{S}[[fhflf"f\check{S}][ftf@fCf<,\dot{I}]&@|\pm,\acute{E},\dot{I}\check{Z}@"@"I,\acute{E}m{\{------}, \\f,[[fh]i\bullet\ddot{I}]X\bulletsm\hat{A}]j,&&A \end{split}$$

<sup>1</sup>¼,ÌfAfvfŠfP□[fVf‡f<sup>"</sup>,É,æ,èŠù,É"r'¼□§Œä,³,ê,Ä,¢,é□ê□‡,É,ĺŠm"Ff□fbfZ□[fW,ª•\ ަ,³,ê,Ü,·□B

,¢, ,ê,Ì□ê□‡,Å,à‰{——f,□[fh,ÅŠJ,□ê□‡,É,ĺ"r'¼□§Œä,ĺ□s,¢,Ü,¹,ñ□B

Œ»□ÝŠJ,¢,Ä,¢,éfhfLf…f□f"fg,ð•Â,¶,Ü,·□B

-¢•Ï□X,Ì□ê□‡,É,Í-³□ðŒ□,É•Â,¶,Ü,·□B •Ï□X,ª, ,é□ê□‡,É,͕ۑ¶,·,é,©,Ç,¤,©Šm"Ff□fbfZ□[fW,ª•\ަ,³,ê,Ü,·□B fhfLf...f□f"fg,ª□V<KfhfLf...f□f"fg,Ì□ê□‡,É,Í'±,¯,Äftf@fCf<-¼,ðŽw'è,μ,Ü,·□B

 $\textcircled{E} = [\acute{Y}\check{S}J, \diamondsuit, \ddot{A}, \diamondsuit, \acute{e}fhfLf...f]f"fg, \eth[]ã[]', «•Û'¶, \mu, Ü, ·]B$ 

 $\|V \langle KfhfLf...f\|f"fg, i]e[] \ddagger, \acute{E}, i\check{Z} @ " @ "I, \acute{E}[]u \_ \frac{1}{4} (O, \eth \bullet t, -, \ddot{A} \bullet \hat{U} (\P...]v, \overset{a}{Z} \grave{A}]s, \overset{a}{,} \acute{e}, \ddot{U}, \cdot]B$ 

Œ»□ÝŠJ,¢,Ä,¢,éfhfLf...f□f"fg,ð□V‹K,Éftf@fCf‹-¼,ðŽw'è,μ,Äf\_f"fvfCf□□[fW,ðfefLfXfg∙Û'¶,μ,Ü,·□B  $\textcircled{E} = [\dot{Y}\check{S}J, \dot{c}, \ddot{A}, \dot{c}, \acute{e}fhfLf...f]f"fg, \eth \bullet \hat{U}`\P, \mu, \ddot{A} \bullet \hat{A}, \P, \ddot{U}, \cdot]B$ 

Šù'¶ftf@fCf‹,Ì[]ê[]‡,É,Í•Ï[]X,ª‰Á,¦,ç,ê,Ä,¢,ê,Î-³[]ðŒ[],ɕۑ¶,μ,Ü,·[]B []V‹KfhfLf...f[]f"fg,Ì[]ê[]‡,É,Íftf@fCf‹-¼,ðŽw'è,·,éf\_fCfAf[]fOf{fbfNfX,ª•\ ަ,³,ê,Ü,·[]B Œ»□ÝŠJ,¢,Ä,¢,é'S,Ä,ÌfhfLf…f□f"fg,ð•Â,¶,Ü,·□B
Œ»[]ÝŠJ,¢,Ä,¢,é'S,Ä,ÌfhfLf...f[]f"fg,ð•Û'¶,µ,Ü,·[]B []V<KfhfLf...f[]f"fg,Ì[]ê[]‡,É,Í,»,Ì"s"x[]Aftf@fCf<-¼,ðŽw'è,·,éf\_fCfAf[]fOf{fbfNfX,ª•\ަ,³,ê,Ü,·[]B

,±,Ì<@"\,Å,ĺfhfLf...f□f"fg,ĺ•Â,¶,Ü,¹,ñ□B

Œ»∏ÝŠJ,¢,Ä,¢,é'S,Ä,ÌfhfLf…f∏f"fg,ð"jŠü,µ,Ä∙Â,¶,Ü,·∏B

 $\label{eq:started_st$ 

Œ»□ÝŠJ,¢,Ä,¢,éfhfLf…f□f"fg,ð^ó□ü,μ,Ü,·□B

^ó□ü,Ì□ê□‡,É,͉æ–Ê•\ަ,Æ^Ù,È,è□A,P□s, ,½,è,P,UfofCfgŒÅ'è□AftfHf"fg,àŒÅ' èftfHf"fg,Æ,È,è,Ü,·□B ^ó□üfvfŒfrf...□[f,□[fh,ðŽÀ□s,μ,Ü,·□B

Œ»□ÝŠJ,¢,Ä,¢,éfhfLf…f□f"fg,ÌfEfBf"fhfE,ª^ó□üfvfŒfrf…□[f,□[fh,É,È,è□A ‰æ–Ê□ã,Å^ó□üfCf□□[fW,ðŠm"F,Å,«,Ü,·□B fvfŠf"f^,Ì□Ý'èf\_fCfAf□fO,ª•\ަ,³,ê,Ü,·□B

,±,±,Å—pކfTfCfY"™,ÌffftfHf<fg'l,ð□Ý'è,Å,«,Ü,·□B

$$\begin{split} & \textcircled{\sc w} [\tilde{Y} \check{S}J, \mbox{$\sc c}, \ddot{A}, \mbox{$\sc c}, \ddot{A}, \mbox{$\sc c}, \dot{A}, \mbox{$\sc c},$$

$$\begin{split} & \textcircled{\sc w} [ \acute{Y} \check{S} J, \pounds, \ddot{A}, \pounds, \acute{e} `S, \ddot{A}, \grave{l} fhfLf ... f [ f"fg, \eth"j \check{S} \ddot{u}, \mu, \ddot{A} Stirling , \eth [ l - ^1, \mu, \ddot{U}, \cdot ] B \\ & `` @ [ \grave{h}, \pounds, \mu, \ddot{A}, \acute{l} [ u \underline{`S, \ddot{A}"j \check{S} \ddot{u} ] v [ { [ u ] l - ^1 [ v, \pounds, \pounds, w \check{S} ´, \P, \pounds, \grave{E}, \grave{e}, \ddot{U}, \cdot ] B } \end{split}$$

Stirling ,ð□l—¹,μ,Ü,·□B

•Ò□W'†,ÌfhfLf...f□f"fg,ª, ,é□ê□‡,É,Í□A,»,Ì"s"x•Û'¶Šm"F,Ìf□fbfZ□[fW,ª•\ ަ,³,ê,Ü,·□B fJ□[f\f<,ð,P,Â□¶,É^Ú"®,μ,Ü,·□B

fJ□[f\f<,ð,P,‰E,É^Ú"®,μ,Ü,·□B

fJ□[f\f<,ð,P□s□ã,É^Ú"®,μ,Ü,·□B

fJ□[f\f<,ð,P□s‰⁰,É^Ú"®,μ,Ü,·□B

fJ□[f\f<,ðff□[f^□æ"ª,É^Ú"®,μ,Ü,·□B fJ□[f\f<^Ú"®,É"⁰,¢Ž©"®"I,ÉfXfNf□□[f<,μ,Ü,·□B f]□[f\f<,ðff□[f^---"ö,É^Ú"®,μ,Ü,·□B f]□[f\f<^Ú"®,É"⁰,¢Ž©"®"I,ÉfXfNf□□[f<,μ,Ü,·□B ƒ]□[ƒ\ƒ<,ð□i•\ަ□ã,Ì□j□s□¶′[,É^Ú"®,μ,Ü,·□B

fJ□[f\f<,ð□i•\ަ□ã,Ì□j□s‰E'[,É^Ú"®,μ,Ü,·□B

f]□[f\f<,ð,Q□s∙ª□ã,É^Ú" ® ,μ,Ü,·□B □ã∙ûŒü,É□,'¬,É^Ú" ® ,μ,½,¢□ê□‡,ÉŽg—p,μ,Ü,·□B fJ□[f\f<,ð,Q□s∙ª‰º,É^Ú"®,μ,Ü,·□B ‰º∙ûŒü,É□,'¬,É^Ú"®,μ,½,¢□ê□‡,ÉŽg—p,μ,Ü,·□B  $fJ\Box[f\backslash f <, \eth, P \% æ - \hat{E} \bullet^{\underline{a}} \Box \tilde{a} \bullet \hat{u} \boxplus \ddot{u}, \acute{E}^{\uparrow} U'' \circledast, \mu\Box A \% æ - \hat{E}, \eth f X f N f \Box \Box [f <, \mu, Ü, \cdot \Box B ]$ 

 $fJ\Box[f\backslash f <, \eth, P \% æ - \hat{E} \bullet {}^{\underline{a}} \%^{\underline{o}} \bullet \hat{u} Œ \ddot{u}, \acute{E}^{} \acute{U}'' @, \mu\Box A \% æ - \hat{E}, \eth f X f N f\Box\Box[f <, \mu, \ddot{U}, \cdot\Box B ]$ 

fJ□[f\f<,ð"¼‰æ−Ê∙ª□ã∙ûŒü,É<sup>^</sup>Ú"®,μ□A∙K—v,È,ç,Ήæ−Ê,ðfXfNf□□[f<,μ,Ü,·□B

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f]□[f\f<,ð"¼‰æ–Ê∙ª‰⁰∙ûŒü,É^Ú"®,μ□A∙K—v,È,ç,Ήæ–
Ê,ðfXfNf□□[f<,μ,Ü,·□B
```

‰æ–Ê,ð,P□s∙ª□ã,ÉfXfNf□□[f<,µ,Ü,·□B fJ□[f\f<^Ê'u,Í•Ï□X,³,ê,Ü,¹,ñ□B ‰æ-Ê,ð,P□s•ª‰º,ÉfXfNf□□[f<,µ,Ü,·□B fJ□[f\f<^Ê'u,Í•Ï□X,³,ê,Ü,¹,ñ□B "C^Ó,ÌfAfhfŒfX,ÉfJ□[f\f‹^Ú" ®,µ,Ü,·□B fAfhfŒfXŽw'èf\_fCfAf□fO,ÅfWfff"fv^Ê'u,ðŽw'è,µ,Ü,·□B ,P,O□i□"‹y,Ñ,P,U□i□",ÅŽw'è,Å,«,Ü,·□B DOSŒ^,Ì'I'ð'€□ì,ÌŠJŽn□^□I—¹,ð□錾,μ,Ü,·□B DOSŒ^,Ì'I'ð'€□쎞,É,̓J□[ƒ\ƒ‹ƒL□[,É,æ,é^Ú"®,Å'I'ð"Í^Í,ðŽw'è,Å,«,Ü,·□B fJ□[f\f<^Ê'u,©,ç,P,Â□¶,É'I'ð□E^Ú"®,μ,Ü,·□B

fJ□[f\f<^Ê'u,©,ç,P,‰E,É'I'ð□E^Ú"®,μ,Ü,·□B

fJ□[f\f<<sup>^</sup>Ê′u,©,ç,P□s•ª□ã,É'I'ð□E<sup>^</sup>Ú"®,μ,Ü,·□B

 $fJ\Box[f{f^{\hat{c}}},\hat{E}'u, @, c, P\Box s^{\underline{a}}, \hat{E}'l' \\ \delta\Box E^{\hat{c}}, \mu, \ddot{U}, \Box B$ 

 $fJ [ [f f^{\hat{L}} u, @, cff [ [f^] a"^{a}, Ü, Å'I' \delta [ E^{\hat{U}} " @, \mu, Ü, \cdot ] B$ 

 $fJ\Box[f\backslash f<\hat{E}'u, @, cff\Box[f^---"ö, Ü, Å'l'ð\Box E^Ú"@, \mu, Ü, \cdot\Box B$ 

 $fJ\Box[f\backslash f<\hat{E}'u, @, c\Box i \bullet \backslash \check{Z}|\Box \tilde{a}, \dot{l}\Box j\Box s\Box \P'[, \ddot{U}, \dot{A}'I' \check{\partial}\Box E^{} \acute{U}'' @, \mu, \ddot{U}, \cdot \Box B$ 

ƒ]□[ƒ\ƒ<^Ê'u,©,ç□i•\ަ□ã,Ì□j□s‰E'[,Ü,Å'I'ð□E^Ú"®,μ,Ü,·□B

fhfLf...f□f"fg,Ìff□[f^'S'Ì,ð'l'ð,μ,Ü,·□B fJ□[f\f<,ĺff□[f^□æ"ª,É^Ú"®,μ,Ü,·□B
′¼'O,É□s,Á,½•Ò□W'€□ì,ðŒ³,É-ß,µ,Ü,·□ifAf"fhfD□j□B

'¼'O,É□s,Á,½"®□ì,ðŒJ,è∙Ô,μ,Ü,·□ifŠfhfD□j□B fAf"fhfD'€□ì□iŒ³,É–ß,·□j,ðŽÀ□s,μ,½'¼Œã,Ì,Ý'l'ð,Å,«,Ü,·□B ʻl'ð,³,ê,½"ĺ^ĺ,Ìff□[f^,ð□Ø,èŽæ,Á,Ä"ÆŽ©fNfŠfbfvf{□[fh,ɕۑ¶,µ,Ü,·□B "<sup>-</sup>Žž,ÉfVfXfef€,ÌfNfŠfbfvf{□[fh,Ö,à"ü—ĺf,□[fh,ÌfCf□□[fW,É□],Á,ĕۑ¶,³,ê,Ü,·□B ʻIʻð,³,ê,½"Í^Í,Ìff□[f^,ðfRfs□[,μ,Ä"ÆŽ©fNfŠfbfvf{□[fh,É•Ûʻ¶,μ,Ü,·□B "<sup>-</sup>Žž,ÉfVfXfef€,ÌfNfŠfbfvf{□[fh,Ö,à"ü—ĺf,□[fh,ÌfCf□□[fW,É□],Á,Ä•Ûʻ¶,³,ê,Ü,·□B  $\label{eq:linear} \ensuremath{\sc t}^{-}, \ensuremat$ 

[]ã[]'f,[][fhŽž,É,Í[]u<u>ŠÂ‹«∏Ý'è[]]</u> <u>●Ò[]W"®[]ì</u>[]v,Å,ÌŽw'è,É,æ,è'}"ü,©[]ã[]',«,©Œ^'è,μ,Ü,·[]B '}"üf,[][fhŽž,É,Í[]í,Éff[][f^,ª'}"ü,³,ê,Ü,·[]B

$$\label{eq:linearconductor} \begin{split} & \Box - \Box j``\, \dot{e} \bullet t, \Bar{Z} \check{z}, \acute{E}, \acute{I} \mathscr{Z} \check{c} \check{S} \check{C} & \Box , \dot{I} fNf \check{S} fbfvf \{ \Box [fh, \delta \check{Z} g & D_{1}, \dot{A$$

•Ò<code>]W‹ÖŽ~f,</code>][fh,Æ•Ò<code>]W‹-‰Âf,</code>][fh,ðfgfOf‹,Å<code>]Ø,è'Ö,¦,Ü,·DB</code> <code>]‰Šú<code>]ó'Ô,Í</code>[lu<u>Šg'£Žq•Ê<code>]Ý'è</code>]]•\Ž<u>¦</u>]ó'Ô<code>]</mark>v,ÅŽw'è,³,ê,½f,<code>][fh,É,È,è,Ü,·DB</code></code></u></code>

'A,µ□A‰{——f,□[fh,ÅŠJ,©,ê,Ä,¢,é□ê□‡,É,Í•Ò□W<ÖŽ~,Ì,Ü,Ü•Ï□X,Å,«,Ü,¹,ñ□B

□ã□'f,□[fh,Æ'}"üf,□[fh,ðfgfOf<,Å□Ø,è'Ö,¦,Ü,·□B □‰Šú□ó'Ô,Í□u<u>Šg'£Žq•Ê□Ý'è□|•\ަ□ó'Ô</u>□v,ÅŽw'è,³,ê,½f,□[fh,É,È,è,Ü,·□B []"'l"ü—ĺf,[][fh,Æ•¶Žš"ü—ĺf,[][fh,ðfgfOf<,Å[]Ø,è'Ö,¦,Ü,·[]B []‰Šú[]ó'Ô,ĺ[]u<u>Šg'£Žq∙Ê[]Ý'è[]]∙\ަ[]ó'Ô</u>[]v,ÅŽw'è,μ,½f,[][fh,É,È,è,Ü,·[]B fJ□[f\f<^Ê'u,Ì,PfofCfg,ð□í□œ,μ,Ü,·□B

fJ□[f\f<'¼'O,Ì,PfofCfg,ð□í□œ,μ,Ü,·□B

'I'ð,³,ê,½"ĺ^ĺ,Ìff□[f^,ð□í□œ,μ,Ü,·□B

ʻlʻð,³,ê,½"ĺ^ĺ,Ìff□[ƒ^,ðŽw'è,μ,½'l,Å–",ß,Â,,μ,Ü,·□B ff□[ƒ^,ĺ,PfofCfg,Ì,P,U□i□",ÅŽw'è,μ,Ä,,¾,3,¢□B  $\label{eq:constraint} ``I``ð,``a,`e,''_2"`I``I,`I`ff[[f^,,`ð[]V<K,`Eftf@fCf<,`É•Û``¶,µ,Ü,`[]B$ 

ftf@fCf<,ð[]Ä"Ç,Ý[]ž,Ý,µ[]A•Û'¶Žž,Ì[]ó'Ô,É–ß,µ,Ü,·[]B 'S,Ä,Ì•Ï[]X,ĺ"jŠü,³,ê,Ü,·,Ì,Å'[]^Ó,µ,Ä,,³⁄₄,³,¢[]B  $f]\Box[f\f^\hat{E'u}, @, c, \hat{I}f\Box[f^, \delta\Box\' c'\hat{I}fef"fvf@\Box[fgftf@fCf<, É, ,Ä, Í, B\BoxA\Box\' c'\hat{I}f\Boxf"fo\Box[, Æ, \mu, AZQ\Box & \Box & ODW, Å, ~, Ü, ODW, Å, ~, U, ODW, ~, U, ODW,$ 

 $[] (\dot{c}'\dot{l} \bullet \dot{O} W < @'' , \dot{\delta} \check{Z} \dot{A} ]s, \cdot, \acute{e}, \frac{1}{2}, \beta, \acute{E}, \acute{I} \underline{(\dot{c}'\dot{l}'\dot{e} < ftf@fCf_{<}}, \overset{a}{\bullet} K - v, \dot{A}, \cdot ]B$ 

 $fLfff{\mathbb{C}}fbfg^{\hat{E}'u}({\mathbb{C}} * []\dot{Y}^{\hat{E}'u}]j, \\ \delta [] (\dot{\psi}^{\hat{I}} \bullet \dot{O} []W, \\ \dot{I} ] \\ a \\ fAfhf{\mathbb{C}}fX, \\ \dot{E}\dot{Z}w'\dot{e}, \\ \mu, \\ \ddot{U}, \\ \vdots ] \\ B$ 

$$\begin{split} \check{Z}w'e,\mu, &\frac{1}{2}ff [[f^, \acute{E}e'v, \cdot, \acute{e}' & \acute{O} ]\check{S}, \\ \delta fhfLf...f ff''fg't, & e E'' ] \tilde{o}, \mu, \ddot{U}, \\ ff [[f^, \acute{I}, P, U]]ifpf^ ][f'', \ddot{U}, & \dot{I}_2, \\ \acute{I} \bullet \P\check{Z}\check{S} & & \\ \bullet \P\check{Z}\check{S} & & \\ \tilde{Z}\check{S} & &$$

ŒŸ<code>[]õf,</code>[[fh,Í]]u<u>f,</u>][fhfŒfXŒŸ]]õ<code>]</mark>vŒŸ[]õ•ûŒü,Í]]u‰º•ûŒü]v,Å,·]B</code>

ŒŸ<code>[]õf,</code>][fh,Í<code>[]uf,</code>][fhfŒfXŒŸ<code>[]õ]v</code>ŒŸ<code>[]õ•</code>ûŒü,Í<code>[]u]</code>ã•ûŒü<code>[]v,Å,·</code>]B

ŒŸ□õf,□[fh,ĺ□u<u>f,□[f\_f‹ŒŸ□õ</u>□vŒŸ□õ•ûŒü,ĺ□u‰⁰•ûŒü□v,Å,·□B

ŒŸ□õf,□[fh,ĺ□u<u>f,□[fhfŒfXŒŸ□õ</u>□vŒŸ□õ•ûŒü,ĺ□u‰º•ûŒü□v,Å,·□B

ŒŸ<code>[]õf,</code>][fh,Í<code>[]uf,</code>][fhfŒfXŒŸ<code>[]õ]v</code>ŒŸ<code>[]õ•</code>ûŒü,Í<code>[]u]</code>ã•ûŒü<code>[]v,Å,·]B</code>

ŒŸ□õf,□[fh,ĺ□u<u>f,□[f\_f‹ŒŸ□õ</u>□vŒŸ□õ•ûŒü,ĺ□u‰º•ûŒü□v,Å,·□B

ŒŸ□õf,□[fh,ĺ□u<u>f,□[f\_f<ŒŸ□õ</u>□vŒŸ□õ•ûŒü,ĺ□u□ã•ûŒü□v,Å,·□B

'¼'O,ÌŒŸ□õf,□[fh,ÆŒŸ□õff□[f^,ÅŽŸŒó∙â□i‰º∙ûŒü,ÌŽŸ,ÌŠY"– ‰Ó□Š□j,ðŒŸ□õ,µ,Ü,·□B ′¼'O,ÌŒŸ□õf,□[fh,ÆŒŸ□õff□[f^,Å'OŒó∙â□i□ã∙ûŒü,ÌŽŸ,ÌŠY"– ‰Ó□Š□j,ðŒŸ□õ,µ,Ü,·□B Žw'è,μ,½ff□[f^,ð□V,μ,¢ff□[f^,É'u,«Š·,¦,Ü,·□B ŒŸ□õff□[f^‹y,Ñ'uŠ·ff□[f^,ĺ,P,U□ifpf^□[f",Ü,½,ĺ•¶Žš—ñ,ÅŽw'è,Å,«,Ü,·□B •¶Žš—ñŽw'è,μ,½□ê□‡,É,ĺ•Ò□W'†,ÌfhfLf...f□f"fg,ÌŽw'èfLfff ‰fNf^□[fZfbfg,ÅŒŸ□õ,μ,Ü,·□B 
$$\begin{split} & (f_{*})$$

• ;[]"ftf@fCf<'+,æ,èŽw'è,µ,½ff[[[f^fpf^][f",Ì'¶]Ý ‰Ó]Š,ðŒŸ]]õ,µ]AfAfEfgfvfbfgfEfBf"fhfE,É^ê——•\ަ,µ,Ü,·]B fAfEfgfvfbfgfEfBf"fhfE,É]o í,³,ê,½ff][[f^]î•ñ,ĺf}fEfX,Åf\_fuf<fNfŠfbfN,·,é,Æf^fOfWfff"fv,Å,«,Ü,·]B ,Ü,½]Af}fEfX‰EfNfŠfbfN,É,æ,éf]]fjf...][,æ,è]A]o íŒ<‰Ê,ðfNfŠfbfvf{][fh,ÉfRfs][,·,éŽ-,ª,Å,«,Ü,·]B

 $[]-[]j,a,f,q,d,o[]ifr[[fOfŒfbfv[]j,Æ,Í[]Ù[]ì,ÌDOS—pfofCfifŠ[[ff][f^ŒŸ[]õfc[[f<,Ì ¼[]Ì,Å,·[]BStirling,É"<[]Ú,³,ê,½,a,f,q,d,o<@"\,Å,ÍDOS "Å,Æ,Ù,Ú"<sup>-</sup>"™,Ì<@"\,É$  $‰Á,![]AŠY"-‰Ó[]Š,Ö,Ìf^fOfWfff"fv<@"\,<sup>ª</sup>'ljÁ,³,ê,Ä,¢,Ü,·[]B$  
$$\label{eq:linear_state} \begin{split} & \square u \underline{\check{SA} < \ } \underline{\check{A}} \stackrel{i}{=} \underline{\hat{A}} \stackrel{i}{=$$

$$\label{eq:linear_state} \begin{split} & \square u \underline{\check{S}A} < & \square \check{Y} \dot{e} \square [f \square [f \square f ] f ... \square [ \square v, Å' \dot{e} <`, ^3, \hat{e}, \frac{1}{2} \square \hat{i} \bullet \tilde{n}, \acute{E} \square ], \acute{A}, \ddot{A}f + \square [f \square [f \square f ] f ... \square [, R, ð \bullet \ \check{Z}, \mu, Ü, \cdot \square B \end{split}$$

$$\label{eq:linear_state} \begin{split} & \square u \underline{\check{S}A} < & \square \check{Y} \dot{e} \square [f \square [f \square f ] f ... \square [ \square v, Å' \dot{e} <`, ^3, \hat{e}, \frac{1}{2} \square \hat{i} \bullet \tilde{n}, \acute{E} \square ], \acute{A}, \ddot{A} f + \square [f \square [f \square f ] f ]... \square [, U, ð \bullet \ \check{Z} |, \mu, \ddot{U}, \cdot \square B \end{split}$$

$$\label{eq:linear_state} \begin{split} & \square u \underline{\check{SA} < \ \ } \underline{\check{A}} = \underline{\check{A}$$
$$\label{eq:linear_state} \begin{split} & \square u \underline{\check{SA} < & \square \check{Y} & \grave{e} \parallel f + \square [f \cup \square [f \square f ] f \dots \square [ \square v, \mathring{A}' & \grave{e} < `, ^3, \hat{e}, \frac{1}{2} \square \hat{i} \bullet \tilde{n}, \acute{E} \square ], \acute{A}, \ddot{A} f + \square [f \cup \square [f \square f ] f \dots \square [, W, \eth \bullet \land \check{Z} |, \mu, \ddot{U}, \cdot \square B \end{split}$$

 $\label{eq:approx_appr$ 

$$\label{eq:linear_state} \begin{split} & \square u \underline{\check{S}A} < & \square \check{Y} \dot{e} \square [f \square [f \square f ] f ... \square [ \square v, Å' \dot{e} <`, ^3, \hat{e}, \frac{1}{2} \square \hat{i} \bullet \tilde{n}, \acute{E} \square ], \acute{A}, \ddot{A} f \dagger \square [f \square f ] f ... \square [, X, ð \bullet \ \check{Z}, \mu, Ü, \cdot \square B \end{split}$$

 $\label{eq:approx_appr$ 

□u<u>ŠÂ‹«□Ý'è□|ft□[fU□[f□fjf...□[</u>□v,Å'è<`,³,ê,½□î•ñ,É□],Á,Äft□[fU□[f□fjf... □[,P,O,ð•\ަ,μ,Ü,·□B

 $\label{eq:alpha} `A,\mu \Box Aft \Box [f U \Box [f \Box f j f \ldots \Box [`t, @, cft \Box [f U \Box [f \Box f j f \ldots \Box [ < @" \, ð Œ Ä, Ñ \Box o, \cdot, \pm , Æ, ĺ, Å, «, Ü, ¹, ñ \Box B$ 

,QfXfgf□□[fN‹@"\,P,Ì'æ,PfL□[,Æ,È,è,Ü,·□B□u<u>ŠÂ‹«□Ý'è□[ft□[fU□[f□fjf...</u> <u>□[</u>□v,Å'è<`,³,ê,½□î•ñ,É□],Á,Ä'æ,QfL□[,É,æ,é‹@"\,ÌŒÄ,Ñ□o,μ,ð□s,¢,Ü,·□B□B

 $\label{eq:alpha} `A,\mu \Box Aft \Box [f U \Box [f \Box f j f \ldots \Box [ 't, @ , c, Qf Xf gf \Box \Box [f N < @ `` \, ð Œ Ä, Ñ \Box o, \cdot, \pm , Æ, Í, Å, «, Ü, ¹, ñ \Box B$ 

,QfXfgf□□[fN<@"\,Q,Ì'æ,PfL□[,Æ,È,è,Ü,·□B□u<u>ŠÂ<«□Ý'è□]f†□[fU□[f□fjf...</u> <u>□[</u>□v,Å'è<`,³,ê,½□î•ñ,É□],Á,Ä'æ,QfL□[,É,æ,é<@"\,ÌŒÄ,Ñ□o,µ,ð□s,¢,Ü,·□B□B

 $\label{eq:alpha} `A,\mu \Box Aft \Box [f U \Box [f \Box f j f \ldots \Box [ 't, @ , c, Qf Xf gf \Box \Box [f N < @ `` \, ð Œ Ä, Ñ \Box o, \cdot, \pm , Æ, Í, Å, «, Ü, ¹, ñ \Box B$ 

,QfXfgf□□[fN<@"\,R,Ì'æ,PfL□[,Æ,È,è,Ü,·□B□u<u>ŠÂ<«□Ý'è□[ft□[fU□[f□fjf...</u> <u>□[</u>□v,Å'è<`,³,ê,½□î•ñ,É□],Á,Ä'æ,QfL□[,É,æ,é<@"\,ÌŒÄ,Ñ□o,µ,ð□s,¢,Ü,·□B□B

 $\label{eq:alpha} `A,\mu \Box Aft \Box [f U \Box [f \Box f j f \ldots \Box [ 't, @ , c, Qf Xf gf \Box \Box [f N < @ `` \, ð Œ Ä, Ñ \Box o, \cdot, \pm , Æ, Í, Å, «, Ü, ¹, ñ \Box B$ 

Œ»□ÝŠJ,¢,Ä,¢,éfhfLf...f□f"fg,ÌfRfs□[,ÌfEfBf"fhfE,ðŠJ,«,Ü,·□B 'A,µ□A"¯^êfhfLf...f□f"fg,È,Ì,Å•Đ•û,É•Ï□X,ð‰Á,¦,ê,Α¼•û,É,à"½‰f,³,ê,Ü,·□B

 $"\ \hat{e}fhfLf...f[f"fg, \hat{l} \bullet_{\hat{l}}]", \hat{l} & \hat{o} \\ O \\ \tilde{S}, \delta \\ \tilde{Z} \\ O \\ \mathcal{E}, \mu, \frac{1}{2}, \\ \varphi \\ \hat{e} \\ \hat{$ 

 $\textcircled{E} = [Y \check{S}], \textcircled{C}, \hat{e}, \ddot{A}, \hat{e}, \acute{e}fhfLf...f[f"fgfEfBf"fhfE, \delta[] \tilde{a} & ^{Q}, \acute{E} \bullet \dot{A}, \times, \ddot{A} \\ [if^fCf < ] j \bullet \\ \check{Z}_{1}^{\prime}, \mu, \ddot{U}, \cdot ] \\ B = (\dot{A}, \dot{A}, 
Œ»□ÝŠJ,©,ê,Ä,¢,éfhfLf…f□f"fgfEfBf"fhfE,ð□¶‰E,É∙À,×,Ä□if^fCf‹□j∙\ ަ,μ,Ü,·□B  $fAfCfRf``\Box i\Box \mathring{A} \Box \neg ‰ >, ^3, \hat{e}, \ddot{A}, ¢, \acute{e}fhfLf...f \Box f``fgfEfBf``fhfE \Box j, ð \Box \circledast - \tilde{n}, \mu, \ddot{U}, \cdot \Box B$ 

Œ»□ÝfAfNfefBfu,ÈfEfBf"fhfE,©,玟,ÌfhfLf...f□f"fgfEfBf"fhfE,É□Ø,è'Ö,¦,Ü,·□B

$$\begin{split} & \mathbb{C} \otimes [\uparrow \check{S} J, \mathbb{C}, \hat{e}, \ddot{A}, \varphi, \acute{e} fhfLf...f[]f"fgfEfBf"fhfE, \grave{i}^{\hat{e}} ----, \eth \bullet \setminus \check{Z} \downarrow, \mu, \ddot{U}, \cdot ]] B \\ & \hat{e} ----' \uparrow, \varpi, \grave{e}' I' \eth, \mu, \ddot{A} fhfLf...f[]f"fgfEfBf"fhfE, \eth [] \emptyset, \grave{e}' \ddot{O}, \downarrow, \frac{1}{2}, \grave{e} ]] A [] V, \mu, \varphi fhfLf... \\ & f[] f"fg, \eth \check{S} J, \varphi, \frac{1}{2}, \grave{e}, \mathring{A}, «, \ddot{U}, \cdot ]] B \end{split}$$

Œ»□ÝŠJ,¢,Ä,¢,éfhfLf…f□f"fgfEfBf"fhfE,ÌfTfCfY,ð□c‰i<¤,É∙\ ަ□ó'Ô,É□‡,í,¹,ÄfŠfTfCfY,µ,Ü,·□B fJ□[f\f<^Ê'u,Ìf}□[fN"o~^,Ɖð□œ,ðfgfOf<,Å□s,¢,Ü,·□B

f}[][fN,³,ê,½‰Ó[]Š,ĺ<u>f}[][fN^ê——</u> ,ÅŽQ[]Æ,μ,½,è[]A[]u<u>ŽŸ,Ìf}[][fN^Ê'u[</u>]v[]u<u>'O,Ìf}[][fN^Ê'u[</u>]v,ÅŒŸ[]õ,μ,½,è,Å,«,Ü,·[] В

 fJ□[f\f<^Ê'u^È'O,Ìf}□[fN^Ê'u,ðŒŸ□õ,μ□AŠY"-‰Ó□Š,ÉfWfff"fv,μ,Ü,·□B fJ□[f\f<^Ê'u^È'O,Éf}□[fN,ª'¶□Ý,μ,È,¢□ê□‡,É,ĺff□[f^--"ö,æ,茟□õ,μ,Ü,·□B Šù,É"o˜^,³,ê,Ä,¢,é'S,Ä,Ìf}□[fN,ð‰ð□œ,µ,Ü,·□B

 $\textcircled{E} = [\acute{T}, \acute{T}, \acute$ 

^ê——,æ,èʻlʻð,μ,Äf}□[fN^Ê'u,É^Ú"®,μ,½,èŠù,É"o˜^,³,ê,Ä,¢,éf}□[fN,ð ‰ð□œ,μ,½,è,Å,«,Ü,·□B fvf□fOf‰f€,ð-¼'O,ðŽw'è,µ,ÄŽÀ□s,Å,«,Ü,·□B

,Ü,½□AŠÖ~A•t,<sup>-</sup>,³,ê,½ftf@fCf‹,Å, ,ê,Îff□[f^ftf@fCf‹,ðŽw'è,µ,ÄŠÖ~A•t,<sup>-</sup>,ç,ê,½fA fvfŠfP□[fVf‡f",ð‹N"®,·,é,±,Æ,à,Å,«,Ü,·□B Stirling ,Ì<¤'Ê"I,ÈŠÂ<«□Ý'è,ð□s,¤f\_fCfAf□fO,ð•\ަ,μ,Ü,·□B

Šg'£Žq∙Ê∏Ý'è^ê——,ª•\ަ,³,ê,Ü,·□B Žw'èŠg'£Žq,Ì∏Ý'è"à—e,ð•Ï□X,μ,½,è□A□V,½,ÈŠg'£Žq□Ý'è,ð"o~^,Å,«,Ü,·□B ,±,±,ÅŽw'è,µ,½fLfff‰fNf^[[fZfbfg,ĺffftfHf<fgŠg'£Žq,âŽw'èŠg'£Žq,ÌfLfff ‰fNf^[[fZfbfg,æ,è—D]æ,³,ê,Ü,·,ª[]Ý'è,ĺ•Û'¶,³,ê,Ü,¹,ñ[B ,»,Ì]êŒÀ,è,ÅfLfff‰fNf^[[fZfbfg,ð•Ï[]X,µ,½,¢[]ê[]‡,ÉŽg—p,µ,Ü,·[]B  $fwf < fvftf@fCf < []i \textcircled{E} > []Ý \bullet \Ž |, \mu, \ddot{A}, ¢, \acute{e}, \pm, ]ftf@fCf <, ]\check{Z} -, \mathring{A}, \cdot []j, \eth \bullet \\check{Z} |, \mu, \ddot{U}, \cdot []B$ 

 $\begin{array}{l} ff [[f^, \delta^{````u} - \hat{I}, \mu, \ddot{A}, \dot{a} \textcircled{C}^{``}] \tilde{O}f_{f} fC_{f} Af [] fO_{f} \{fb_{f} NfX, \hat{I} \bullet \hat{A}, \P, \dot{E}, \varphi, \ddot{U}, \ddot{U} \textcircled{C}^{``}] \tilde{O}, \cdot, \acute{e} f, [] [fh, \mathring{A}, \cdot ] B \\ -\frac{3}{4} \ddot{Z} | ``I, \acute{E} f_{f} fC_{f} Af [] fO_{f} \{fb_{f} NfX, \delta \bullet \hat{A}, \P, \dot{E}, \varphi, \pounds \textcircled{C}^{``}] \tilde{O}f, [] [fh, \textcircled{C}, \varsigma^{''2}, \overline{}, \ddot{U}, \overline{}, \ddot{n} ] B \end{array}$ 

ŽΫ□X,ÆŒΫ□õ,μ,½,¢□ê□‡,É,͕֗~,Å,·□B

$$\begin{split} & & \quad \\ & \quad \\ & & \quad \\ & & \quad \\ & & \quad \\ & & \quad \\ & \quad \\ & & \quad \\ & & \quad \\ & & \quad \\ & & \quad$$

,a,f,q,d,o,̌<‰Ê,ð∙\ަ,∙,éf\_fCfAf□fOfo□[,Ì•\ަ□E"ñ•\ަ,ªŽw'è,Å,«,Ü,·□B

Stirlingfo□[fWf‡f"□î•ñ,ð•\ަ,μ,Ü,·□B

fJ□[f\f<^Ê'u,©,ç'O∙ûŒü,É,Pfy□[fW∙ª'I'ð□E^Ú"®,μ,Ü,·□B

fJ□[f\f<^Ê'u,©,çŽΫ∙ûŒü,É,Pfy□[fW∙ª'I'ð□E^Ú"®,μ,Ü,·□B

fhfLf…f□f"fg'S'Ì,ð'l'ð,μ,Ü,·□B

<u>frfbfgfCf□□[fW</u>,Ì•\ަ□E"ñ•\ަ,ªŽw'è,Å,«,Ü,·

 $fVf"fNf\square[i"^{\check{}}Su]]fXfNf\_[f<,,,efEfBf"fhfE,i"o^{\_}DE‰\delta\_c,\delta\_s,c,U,.]B$ 

 $\label{eq:started_st$ 

<u>□\'¢'Ì•Ò□W</u>fo□[,Ì•\ަ□E"ñ•\ަ,ªŽw'è,Å,«,Ü,·

 $\textcircled{E} = [Y \check{S}], \&, \ddot{A}, \&, \&fhfLf...f] f"fg, \&fofCfgfl][f_[[, ð \check{Z}w'e, \mu, \ddot{U}, \cdot]]B$ 

,±,± ,ÅŽw'è,μ,½fofCfgfl[[[f\_[][,ĺffftfHf‹fgŠg'£Žq,âŽw'èŠg'£Žq,ÌfofCfgfl[[[f\_[][,æ,è— D[]æ,³,ê,Ü,·,ª[]Ý'è,͕ۑ¶,³,ê,Ü,¹,ñ[]B ,»,Ì[]êŒÀ,è,ÅfofCfgfl[[[f\_[][,ð•Ï[]X,μ,½,¢[]ê[]‡,ÉŽg—p,μ,Ü,·[]B

'uŠ·Žž,É[]u'uŠ·ff[][f^[]v,ðŽw'è,µ,È,¢[]ê[]‡[]AŒŸ[]õff[][f^,ð[]í[]œ,·,éNULL'uŠ·,ªŽÀ []s,Å,«,Ü,·[]BNULL'uŠ·,ðŽg,¦,Îff[][f^'†,æ,è"C^Ó,Ìff[][f^,ð[]í[]œ,·,é,±,Æ,ª‰Â"\ ,Å,·[]B
fJ□[f\f<^Ê'u,Ìf}□[fN,Q"o~^,Ɖð□œ,ðfgfOf<,Å□s,¢,Ü,·□B

f}[][fN,³,ê,½‰Ó[]Š,ĺ<u>f}[][fN^ê——</u> ,ÅŽQ[]Æ,μ,½,è[]A[]u<u>ŽŸ,Ìf}[][fN^Ê'u[</u>]v[]u<u>'O,Ìf}[][fN^Ê'u[</u>]v,ÅŒŸ[]õ,μ,½,è,Å,«,Ü,·[] В

fJ□[f\f<^Ê'u,Ìf}□[fN,R"o~^,Ɖð□œ,ðfgfOf<,Å□s,¢,Ü,·□B

f}[][fN,³,ê,½‰Ó[]Š,ĺ<u>f}[][fN^ê——</u> ,ÅŽQ[]Æ,μ,½,è[]A[]u<u>ŽŸ,Ìf}[][fN^Ê'u[</u>]v[]u<u>'O,Ìf}[][fN^Ê'u[</u>]v,ÅŒŸ[]õ,μ,½,è,Å,«,Ü,·[] В

^ó□ü,μ,½,¢"ĺ^ĺ,ðŽw'è,μ,Ä□o—ĺ,∙,é,±,Æ,ª□o—^,Ü,·□B

fvfŒfrf…□[Œo—R,Å□o—ĺfCf□□[fW,ðŠm"F,μ,È,ª,ç^ó□ü,∙,é,±,Æ,à‰Â"\,Å,·□B

′¼□ÚŠJŽnfAfhfŒfX□A□I—¹fAfhfŒfX,ðŽw′è,µ,Ä'l'ð,∙,é,±,Æ,ª□o—^,Ü,·□B

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