

fj“fO—Š‘¾fwf<fv for Windows95

-ÚŽŸ



fj“fO—Š‘¾,ìŠT—v



“®ìðŸ



<Èff[f^,ìì



•@%ò,ì“S



%ò¹•„,ì“ü—íE•ÒW



fjf%òfjP,ì“S



‘€ìšŸftf@fŸf“fX



ft[fU[“o~^

Žg,ç•û,ª,í,©,ç,È,ç,Æ,«[F1]fL[,ð%öŸ,¹,î,»},ìó<µ,É%ž,¶,½fwf<fv,ðŸ©,é,±,Æ,ª,Å,«,Ü,·B



f{f^f“,ðfNšŸbfN,·,éA,Ü,½,í[Shift]+[F1],ð

%öŸ,¹,ìó<µ^È‘¶,ìfwf<fv,É,æ,èf}fEfX,ÅfNšŸbfN,µ,½•”•ª,ìfwf<fv,ðŸ©,é,±,Æ,ª,Å,«,Ü,·B

fj“fo—š‘¾,İŠT—v



ŠÈ’P,Éİ<È,ª,Å,«,,Ü,·•@%ò,İ“S□□

□@fRf“fsf...□[f^f~f...□[fWfbfN,ÆCE¾,æCE¾—t,ª^è”É,É,à’è’...,,µ,Ä,«,,½Žž□
 ,Å,·,ª□A%ò¹Šy,Í’®,,,¾,¯,Å□ì,é,ì,Í“Á•É,È□È”\,ì, ,é□-
 □” ,ì□,¾,¯,ì,à,ì□D□D,Æ’N,Å,àŽv,Á,Ä,ç,é,±,Æ,Å,Í,È,ç,Å,µ,â,æ,©□B
 □@□i,Ü,Å,Í□A%ò,Æ,ç,ì,î%òİŽè,ª%ò,Á,½fCEfR□[fh,â,b,c,ð•,,±,Æ,É,Æ,Ç,Ü,Á,Ä,ç
 ,Ü,µ,½□B,µ,©,µ□Afjf%ofIfP,ì□oCE»,Å,¾,é,Å,à%òİŽè,à,Ç,«,,É%ò,æŠÅ«,,ª,Å,«□A
 %òİŽè•À,ì%ò□¥—Í,ð,à,Á,½fjf%ofIfPfLfbfh□Afjf
 %ofIfP□e•f,Ü,Å□oCE»,·,é,ÉŽŠ,Á,½,ì,Å,·□B,µ,©,µ□AŽ©•ª,Å
 %ò,ðì,Á,Ä,µ,Ü,¯,æ□I,ÆŽv,Á,Ä,à%ò¹Šy,ì’mŽ¯,âŠySí,ª’e,¯,È,ç,±,Æ,ª—
 š,¿,Í,¾,©,Á,Äİ<È,ð□ç“î,È,à,ì,É,µ,Ä,ç,Ü,µ,½□B
 ,»,±,É“o□ê,µ,½,ì,ªfj“fo—š‘¾,Å,·□B□u,ñ,ñ,ñ□[v,Æ•@%ò,ð%ò,ì,î,»,,é,ðì•^,µ,Ä
 %ò%ò’t,Ü,Å,Å,«,,Ä,µ,Ü,ç,Ü,·□BŽ©□ì,İ<È,ð”P□—
 □i”PŽ□,ì□j,ì’a□¶“ú,ìvfCEf[f“fg,Æ^è□□,É“n,·□A,È,ñ,Ä,±,Æ,ªfj“fo—
 Š‘¾,ÅŽÀCE»,Å,«,,é,ì,Å,·□BCEöŠj^È—^□u%òæŠú“l,¾□I□v,Æ,İš‘z,ð,½,,³,ñ’,ç,Ä,ç
 ,Ü,·□B



fjf%ofIfP,İfgfCE□[fj“fo<@”\,ª, ,è,Ü,·fjf%ofIfP,İ“S□□

□@%ò%ò’t,É□±,í,¹,Ä%ò,ì,î□A%ò,Á,½, ,Æ,É%ò¹•,,É’í,µ,Ä,æ,Ü,%ò,ì,½,Æ,±
 ,è,ÆŠÔ^á,Á,½,Æ,±,è,ª^è—Ü—Ä’R,Å,Í,©,è,Ü,·□BŽ©•ª,İ<èŽè,È%ò¹,ª,æ,-
 ,í,©,è,Ü,·□B<èŽè,ª,í,©,è,î, ,Æ,Í<èŽè,ð□Ž•ž,·,é,¾,¯, ,Å,·□B“¾^Ó,à<èŽè,à,í,©,ç,È,ç
 ,Å^Ä’t—Í□ö,Å—û□K,·,é,æ,è,í,é,©,ÉCEø%òÉ“l,Èfjf%ofIfP—
 û□K,Æ,È,è,Ü,·□BŽ©•ª,Å,±,Á,»,èfjf%ofIfP,ì”é—ş—û□K,ð,·,é,±,Æ,ª,Å,«,,Ü,·□B,Ü,½
 %ò½□I,©,Å’N,ª^è”Ô%ò,ª,æ,Ü,ç,©,ð<£,æ,ì,à—È””,ç,Å,µ,â,æ□B



’N,Å,àŠÈ’P,ÉŽg,ì,Ü,·

□@fj“fo—š‘¾,Í%ò¹Šy,ì•x<,ð,µ,È,©,Á,½□I,Å,àfRf“fsf...□[f^f~f...
 □[fWfbfN,ðŠy,µ,p,±,Æ,ª,Å,«,,é,ð’O’ñ,ÉŠj” ,³,é,½fjftfg,Å,·□B%ò¹Šy“i-¯□i□H□j,É—
 D,µ,ç<@”\,ª, ,è,Ü,·□B—á,ì,ìfn’·²,Æ,Í^á,æ%ò¹^æ,ì□I,Å,à
 %ò,Á,½ff□[f^,ðŽ©“®^Ú²,É,æ,èfn’·²,É^Ú²,µ,Ä,è,Ü,·□B
 □@,Ü,½□Af□□[fv□,âfefLfXfgfGfffBf^,ì,æ,æ,È^€□ì•û-@,É,µ,Ä, ,è,Ü,·,ì,Å□A’¼Š

‘“l,É‘€[]i,.,é,±,Æ,²,Å,«,Ü,·[]B

[]@•¶Žš,Ç,¨,è[]u<CŠy,É•@%oì<C•²,Å<È,đ,Â,,é[]v,±,Æ,²%oÂ”\,Å,·[]B

“®ìðĎ



ftf@fCf<

wfjf“fo—Š¼x,đ“®ì,³,¹,é,½,ß,É,íA
@@@@SRT.EXE
@@@CALLBACK.DLL
,ª•K—v,Å,·BŽÀsĎ`Ž®ftf@fCf<,ÍSRT.EXE,Å,·B

wfjf“fo—Š¼x,đ“®ì,³,¹,é,½,ß,É,í^È%º,lfñ[fhfEfffA,ª•K—v,Å,·B



,o,b,l%º¹Ď¹

ffj%oflfP,ì“S[]l,â•@%òl,ì“S[]l,đŽg,ꝛ[]ê[]#[]A,Q,Q,j,g,š[]E,P,Ufrfbfg,ì,o,b,l,ª~^
%º¹[]E[]Ä[]¶[]%º¹Å“\,É,o,b,l%º¹Ď¹,ª•K—v,Å,·B,±,ê,ç,ì<@“\
,đŽg,í, ,<Èff[]f^,đf}fEfX,Å“ü—í,·,é,¾,¯,Å[]ì,Á,Ä,µ,Ü,ꝛ[]ê[]#,í[]A•K—v, ,è,Ü,¹,
ñ[]B[]i,·,Å,É<È,ª[]o—^,Ä,ç,ÄŠy•^,ª, ,è,»„ê,đ“ü—í,·,é,æ,ꝛ,È[]ê[]#,È,Ç,Å,·B[]
'[]^Ó[]j
,e,l[],s,n,v,m,r,ì<Ďf,fff<,âfTfEf“fhfuf
%ofXf^[][,]ĎÄ,çf,fff<,í,Q,Q,j,g,š[]E,P,Ufrfbfg,ì,o,b,l,É'í%ºž,µ,Ä,ç
,Ü,¹,ñ[]B,Ü,½[]A,o,b,l%º¹Ď¹,É,æ,Á,Ä,íftf“fvfŠf“foŽü”g[]“™,ì[]Y'è,ª•K—v,È
%º¹Ď¹,à, ,è,Ü,·,ì,Å,o,b,l%º¹Ď¹,ìf}fjf...fAf<,đ,²ŽQ[]Æ%ºº,³,ç[]B



,l,h,c,h%º¹Ď¹[]i,e,l%º¹Ď¹[]j

%º¹Šy,đ%ºº't,·,é,½,ß,ì,l,h,c,h%º¹Ď¹,ª•K—v,Å,·B[],%ºž,È,l,h,c,h
%º¹Ď¹,Å,È,,Æ,à,o,b,X,W,O,P[]l,W,Uf{[]fh,âfTfEf“fhfuf%ofXf^[]["™,ì,e,l
%º¹Ď¹,ÄŠy,µ,ß,Ü,·Bfhf%ofCfo[][f]ftfg,ªfZfbfg,µ,Ä, ,é•K—v,à, ,è,Ü,·Bfpf
fRf“,Å%ºº“K,È%º¹Šy,đŠy,µ,p,½,ß,É,í,l,h,c,h%º¹Ď¹,đ—p^Ó,³,ê,é,±
,Æ,đ,“Š©,ß,µ,Ü,·B,l,h,c,h%º¹Ď¹,ì%º¹,đ'®,ç,Ä,µ,Ü,Á,½,ç,e,l%º¹Ď¹,ì
%º¹,ª•nŽã,·,¬,é,±,Æ,đ'ÉŠ',³,ê,é,ÆŽv,ç,Ü,·B
[]@,Ü,½[]Å<ß,Å,íftfgfEfFfA,Å,o,b,l%º¹Ď¹,đŽg,ç,l,h,c,h%º¹Ď¹,đfGf~f...
fĎ[]fg,·,éftfg,à, ,ç,í,ê,Ü,µ,½[]B,±,ê,đŽg,ì,ì,l,h,c,h%º¹Ď¹,â,e,l%º¹Ď¹,ª,È,-
,Ä,à%ºº't,³,¹,é,±,Æ,ª[]o—^,Ä,µ,Ü,ç,Ü,·B,Ü,¾,Ü,¾,l,h,c,h%º¹Ď¹,í[],%ºž,
ì,Å,·,µ[]A[]ç,ì't•s<µ,ì,Ü,Á,½,¾'t,Å,l,h,c,h%º¹Ď¹,È,Ç,í"f,ì,È,ç,¼[][][][],Æ,ç

,x•û,ížž,μ,Ä,Ý,Ä%ºº,³,ç□B□Å<ß,Å,í,e,l%º¹CE¹,ª,È,□i,l,h,c,h
%º¹CE¹,à,È,ç□j,o,b,l%º¹CE¹,¾,¯,Æ,ç,xfpfRf“ ,ª, ,è,Û,·,ª□A,±,ì,æ,x,Èfpf\
fRf“ ,Å,à%ººº‘t,ð,³,¹,é,±,Æ,ª,Å,«,Û,·□B



f}fCfN

fTfEf“fhfj□[fh,É,¨,Û,¯,Å,Â,ç,Ä,«,½CEŠ,ª,P,Â, ,ç,Ä,ç,é,¾,¯,ìf}fCfN,í, ,Û,è,æ,,
,è,Û,¹,ñ□B‘š,ª,±,à,Á,Ä,μ,Û,ç~c,Ý,ìCE´^ö,É,È,è,Û,·□Bfjf%oflfP—
p,ìf}fCfN,ðžg,Á,½•û,ª‘š,É,æ,éfmfCfY,ÅCEë”Fž¯,·,é,±,Æ,ª□,È,,È,è,Û,·□B



fwbfbhftfHf“

fjf%oflfP,ì“S□l,È,Ç,Å%ººº‘t,μ,Ä,ç,é%ºº¹□º,ªfXfs□[fj,©,çf}fCfN,É%ººñ,è□ž,ñ,Å
%º¹□º”Fž¯,ìCEëCEÿ□o,ð,·,é□ê□‡,ª, ,è,Û,·□BfwbfbhftfHf“ ,ðžg—p,·,é,±
,Æ,É,æ,è,±,ì•s<i□‡,ð%ººð□Á,·,é,±,Æ,ª,Å,«,Û,·□B,Û,½□[-é,È,Ç‘¼□l,É-
À~f,ð,©,¯,é,±,Æ,ª—\z,³,ê,é,Æ,«,È,ÇfwbfbhftfHf“ ,ðžg—p,³,ê,½•û,ª,æ,ç
,Æžv,ç,Û,·□B

‘□^Ó□jfpfRf“ ,ì<@ží□AfffofCfXfhf%ofCfo□[□A,v,%º,ž,,,□,—
,“ ,ìfo□[fWf‡f“™ ,É,æ,è□A~^%ºº¹,ª,Å,«,È,ç“™ ,ì•s<i□‡,ª”□¶,·,é,±,Æ,ª, ,è,Û,·□BCE»
žž“_ ,Å,ì‘í□^ -@,ì,í,©,Á,Ä,ç,é,à,ì,íreadme.docftf@fCf<,É<L□Ú,³,ê,Ä,ç
,Û,·□B,²žQ□Æ%ºº,³,ç□B

MIDIĪĒβ°,ìŲ'è

<Èff□[f^,ì□ì□¬



<Èff□[f^ftf@fCf<□iŠg'£ŽqSRT□j,đ□ì□¬,μ,Ü,·□BŽQ□Æ□j[ftf@fCf<]f□jif...□[
<Èff□[f^,ì□ì□¬•û-@,í,ç,ë,ç,ë, ,è,Ü,·□Bf~f...□[fWfVfff“,í,»,è,¼,êŽ©•ª—¬,ì•û-
@,Å<È□ì,è,đ,μ,Ä,ç,Ü,·□B<È,đ□ì,é,½,β,É,í%o¹Šy,ì'mŽ¬,ª•K—
v,É,È,è,Ü,·,ª□i^ê“É“í,É,»,xŽv,í,è,Ä,ç,é□j□Afj“fO—Š³⁄₄,đŽg,ì,î-Ê“|,È,±
,Æ”²,«,É<È,đ,Ä,,é,±,Æ,ª,Å,«,Ü,·□B

¬□j,·,Å,É,Å,«,Ä,ç,é<È,Åff□[f^□ì□¬

—á,ì,î□Z%oì□E%ož%o±%oì□EŽĐ%oì□E~J“g□±,ì%oì□iflf%o
,ì□ì'g□±,ì□E□è^î^ō,È,Ç,đ,â,ç,³,é,½,½,β□A~J“g□±,ì□±□h,ÉŽQ%oÁ,·,é%oH-
Ú,É,È,Á,½□B'©,ì,UŽž,É<N,±,³,é,R,O•ª,,ç,ç~J“g□±,ì%oì,đ—
û□K,³,¹,ç,é,½,Æ,ç,x,±,Æ,ª, ,Á,½,ì,¾□B^_í□j,È,Ç,đ“ü—í,μ,Ä,ç,ë,ç
,ë,ÈŠySí,Å%o%o't,³,¹,½,ç,æ,x,È□è□±□A
%o¹•,,ff□[f^,ì'Á,ž□ž,Ý,đ,·,é,¾,¬,Á,·□B•^-Ê,ì%o¹•,,“ü—í,·,é,É,í%o¹•,,,ì“ü—
í□E•ò□W,đŽQ□Æ,μ,Ä%oª,³,ç□B

·a□jlfŠfWfif<ff□[f^,ì□ì□¬□ì□ì<È□j

□i,P□j□f□fffB□[,©,ç,Å,,é

Žv,ç,Å,ç,½f□f□fffB□[,đ□u,ñ,ñ,ñ,ñ□[□□v,Æ•@%oì,Å%oì,Á,Ä□ì,è,Ü,·□B
%oì□S,ª, ,è%o¹Š',æ,•@%oì,Å%oì,ì,é□l,íŽ©—R,È”z,Å□ì,Á,Ä%oª,³,ç□B

□i,Q□jŠfYf€,©,ç,Å,,é

- 1) fŠfYf€fp□[fg,đ□ì,è,Ü,·□B
- 2) fŠfYf€,đfR□[fh,Å□C□ü,μ,Ü,·□B□i,±,é,ÅfAfCef“fWfp□[fg,ª,Å,«,Ä,μ,Ü,x□B□j
- 3) 2),Å□ì□¬,μ,½fR□[fh,©,ç“K”¬,È%o¹'ö,đ”²,«□o,μ,·□B□i,±
,é,Åf□f□fffB□[fp□[fg,ª,Å,«,Ä,μ,Ü,x□j
□B,Ü,½,±,ì•û-@,í%oì,ª%oªŽè,È□l,É,í,x,é,μ,ç•û-@,Å,·□B

ŽQ□Æ□j•@%oì,ì“S□□A%o¹•,,,ì“ü—í□E•ò□W



fv□fWfFfNfg,É<Èff□[f^,đ“o~^,μ,Ü,·□BŽQ□Æ□j[fv□fWfFfNfg]f□jif...□[
fv□fWfFfNfg,É“o~^,·,é,±,Æ,É,æ,è□AfAfCef“fW,đŠÜ,β,½f}f<f'fgf%ofbfN,Å%o
%o't,ª,Å,«,Ü,·□B,Ü,½•W□€,l,h,c,hftf@fCf<□iŠg'£ŽqMID□j,đ□ì□¬,·,é,±

,Æ,à,Å,«,Ü,·□B

fj“fo—Š‘¾,Å,íŠÖ~Aff□[f^,Æ,μ,Äfj“fo—Š‘¾,ì<@“\,ðŽg,Á,½,“<CŠy□E<ÉŠy□ì<È-
@,³fj“fo—Š‘¾,Æ“˘,¶□ê□Š,ÉfAfbfvf□□[fh,μ,Ä, ,è,Ü,·□Bfj“fo—Š‘¾,ì-
{‘ì,Æ,í•Ê,Éfo□[fWf#f“fAfbfv,³,ê,Ü,·□B□ì<È,·,é,α,!,Å,ìfqf“fg,É,È,é,ÆŽv,ç
,Ü,·□B□ì<È,É‘š<I,Ü,Á,½,Æ,«,È,ÇŽQ□I,É,μ,Ä%ºº,³,ç□B

'€[]ifŠftf@fÆf“fX

fRf}f“fh


[ftf@fCf<] f[]fjf...[]


[•Ò[]W] f[]fjf...[]


[Æø%oÊ] f[]fjf...[]


[•\Ž!;] f[]fjf...[]


[fvf[]fWfFfNfg] f[]fjf...[]


[%o%o't] f[]fjf...[]


[fc[][f<] f[]fjf...[]


[fEfBf“fhfE] f[]fjf...[]


[fwf<fv] f[]fjf...[]

[ftf@fCf<] f[]jf...[][,lfRf}f“fh

[ftf@fCf<] f[]jf...[][,É,Í^È%º,ì,æ,α,ÈfRf}f“fh,^a, ,è,Ü,·[]B



[[]V<K[]ì[]¬...][]@[]@<Èff[][f^,ð[]V<K,É[]ì[]¬,μ,Ü,·[]B



[ŠJ,...][]@[]@Šù‘¶,ì<Èff[][f^,ðŠJ,«,Ü,·[]B



[·Â,¶,é][]@[]@CE»[]ÝŠJ,ç,Ä,ç,é<Èff[][f^,ð·Â,¶,Ü,·[]B



[[]ã[]’,«,·Û‘¶][]@[]@[]ì<Æ’t,ì<Èff[][f^,ð[]ã[]’,«,μ,Ä·Û‘¶,μ,Ü,·[]B



[[-¼’O,ð·t,¯,Ä·Û‘¶...][]@[]@[]ì<Æ’t,ì<Èff[][f^,É[]V,μ,ç-¼’O,ð·t,¯,Ä·Û‘¶,μ,Ü,·[]B



[[]|—¹][]@[]@f“fO—Š³/₄,ð[]|—¹,μ,Ü,·[]B

[•ÒW]f fff...[l,lfRf}f“fh

[•ÒW] f fff...[É,Í^È%º,lfRf}f“fh,ª, ,è,Ü,·B



[Œ³,É-ß,·]@@‘¼’O,É[s,Á,½‘€ì,ðŒ³,É-ß,µ,Ü,·B



[∅,èŽæ,è]@@‘ð,µ,½”í^í,ð∅,èŽæ,Á,ÄAfofbftf@f f,š,É•Û’¶,µ,Ü,·B



[fRfs[]@@‘ð,µ,½”í^í,ðfRfs[,µ,ÄAfofbftf@f f,š,É•Û’¶,µ,Ü,·B



[“\,è•t,·]@@fofbftf@f f,š,ìff[f^ ,ðj[f<,ì^Ê’u,É“\,è•t,·,Ü,·B



[,·,x,Ä,ð’ð]@@,·,x,Ä,ìff[f^ ,ð’ð,µ,Ü,·B



[%º¹•„,“<x•„,•İŠ·]@@‘ð,µ,½”í^í,ìº¹•„,ð<x•„,É•İŠ·,µ,Ü,·B



[~A•„]@@‘ð,µ,½”í^í,ð~A•„,É,µ,½,èA~A•„,ð%ðœ,µ,Ü,·B



[f^fC]@@‘ð,µ,½”í^í,ðf^fC,É,µ,½,èAf^fC,ð%ðœ,µ,Ü,·B

[•\Ž!]}f[]fj...[][,ìfRf}f“fh

[•\Ž!]}f[]fj...[][,É,Í^È%°°,ì,æ,ɹ,ÈfRf}f“fh,^a, ,è,Ü,·[]B



[[]æ“^a[]s][][]@[]@[]æ“^a[]s,ð•\Ž!,μ,Ü,·[]B



[[]Å[]s][][]@[]@[]Å[]s,ð•\Ž!,μ,Ü,·[]B



[[]sŽw'è][][]@[]@[]s"Ô[]†,ÅŽw'è,μ,Ä[]s,ð•\Ž!,μ,Ü,·[]B



[[]sf}][[]fNON/OFF][][]@[]@[]sf}][[]fN,ðf|f“[]Eflft,μ,Ü,·[]B



[[]sf}][[]fN[]ä[]Éÿ[]ö][][]@[]@[]sf}][[]fN,ð[]ä•û[]Éü,É[]Éÿ[]ö,μ,Ü,·[]B



[[]sf}][[]fN%°[]Éÿ[]ö][][]@[]@[]sf}][[]fN,ð%°•û[]Éü,É[]Éÿ[]ö,μ,Ü,·[]B



[[]sf}][[]fN,ìfNfŠfA][][]@[]@[]sf}][[]fN,ìfNfŠfA,ð,μ,Ü,·[]B



[[]fc][[]f<fo[]][[]@[]@[]fc][[]f<fo[][,ì•\Ž!,Ü,½,í"ñ•\Ž!,ð[]Ø,è'Ö,!,Ü,·[]B



[[]fXfe][[]f^fXfo[]][[]@[]@[]fXfe][[]f^fXfo[][,ì•\Ž!,Ü,½,í"ñ•\Ž!,ð[]Ø,è'Ö,!,Ü,·[]B



[[]í^íŽw'è%°ð[]æ][][]@[]@"í^íŽw'è,ð%°ð[]æ,μ,Ü,·[]B

[fEfBf“fhfE]f□fjf...□[,ìfRf}f“fh

[fEfBf“fhfE] f□fjf...□[,É,Í□A•i□”,ìfAfvfŠfP□[fVf†f“ fEfBf“fhfE,ì•\Ž!•û-
@,đ'€□ì,•,é^È%°°,ì,æ,κ,ÈfRf}f“fh,ª, ,è,Û,·□B


□□d,Ë,Ä•\Ž!□□@□@fEfBf“fhfE,đ□d,Ë,Ä•\Ž!,μ,Û,·□B


[•À,x,Ä•\Ž!□□@□@fEfBf“fhfE,đ•À,x,Ä•\Ž!,μ,Û,·□B


[fAfCfRf“,ì□®—ñ□□@□@fEfBf“fhfE,ì%°°”,ÉfAfCfRf“,đ□®—ñ,μ,Û,·□B


[fEfBf“fhfE-¼ 1, 2, ...]□□@□@Žw'è,μ,½fEfBf“fhfE,đ•\Ž!,μ,Û,·□B

[fwf<fv]f[]fj...[][,ìfRf}f“fh

[fwf<fv] f[]fj...[][,É,Í^È%º,ì,æ,α,ÈfRf}f“fh,^a, ,è,Ü,·[]B



[-ÚŽŸ][]@[]@fwf<fv,ì-ÚŽŸ%ºæ-Ê,ð•\Ž!,μ,Ü,·[]B



[fwf<fv,ìŽg,ç•û][]@[]@fwf<fv,ìŽg,ç•û,ìà-¾,ð•\Ž!,μ,Ü,·[]B



[fR[][fh[]i[]s][]@[]@fR[][fh[]i[]s,ð•\Ž!,μ,Ü,·[]B



[fR[][fh”»•Ê][]@[]@Žw’è,μ,½”í^í,ìfR[][fh,ð”»•Ê,μ,Ü,·[]B



[fo[][fWf#f“[]î•ñ...][]@[]@f\“fO—Š’¾,ìfo[][fWf#f“[]î•ñ,ð•\Ž!,μ,Ü,·[]B



[fpfXf[][][fh,ìŸ’è][]@[]@ft[][fU[][“o~^,¾,ê,½•û,ìfpfXf[][][fh,ìŸ’è,ð,μ,Ü,·[]B

[ftf@fCf<]||[V<Kì~] fRf}f“fh

@V<K,ì<Èff[f^,đ~-,μ,Ü,·B[V<Kì~]f_fCfAffo
f{fbfNfX,ÅV<K,É~-,μ,½,ç<Èff[f^,ìftf@fCf<Æ`Ž®,đŽw`è,μ,Ü,·B

Šù‘¶,ì<Èff[f^,í[Š],...] fRf}f“fh,ÅŠJ,«,Ü,·B

fVf#|[fgf]fbfg

fc[f<fo[: 
fL[f{[fh: [Ctrl]+[N]

[[V<K]i]~[nf_fCfAf]fO f{fbfNfX

@V<K,É]i]~[μ,½,ϕ<Éff[f^,ìtf@fCf<E`Ž®,đŽw'è,μ,Û,·BØ½pÑ,ÒÛ°Ãp"°,ì,ç
,ì,ç,©,đŽw'è,μ,Ä%oo°,³,ϕ]B
@Cancel f{f^f",đfNfŠfbfN,·,é,Æ[V<K]i]~[í-³Eø,É,È,è,Û,·]B

ftf@fCf<CE`Ž®

□@fj“fo—Š‘¾,Å□ì□¬,·,é<Èff□[f^ftf@fCf<(Šg’£ŽqSRT)
,ÍšŸf€CE`Ž®,Æf□f□fffB□[CE`Ž®,ì,ç,,ê,©,É,È,è,Ü,·□B



fšŸf€CE`Ž®

□@fhf%of€,âfvf“fof<,ì,æ,π,É%o¹,ì□,‘á,ì,È,çŠyŠí,É,æ,é<Èff□[f^,ìCE`Ž®,Å,·□B•^•\,
,É,¨,¬,é%o¹,ì□,‘á,í%o%o‘tŠyŠí,ì^á,ç,Æ,μ,Ä•\CE»,³,ê,Ü,·□B



f□f□fffB□[CE`Ž®

□@fsfAfm,âfMf^□[,ì,æ,π,É%o¹,ì□,‘á,ì, ,éŠyŠí,É,æ,é<Èff□[f^,ìCE`Ž®,Å,·□B•^•\,í
%o¹,ì□,‘á,đ•\CE»,μ,Ä,ç,Ü,·□B

%o%o‘tŠyŠí,đŽw’è,·,é,Æ,«□Aftf@fCf<CE`Ž®,É,æ,è‘l’đ,Å,«,éŠyŠí,ª^Ù,È,è,Ü,·□B

[ftf@fCf<]□|[Š],...] fRf}f“fh

□@Šù‘¶,ì<Èff□[f^,đŠ],«,Ü,·□B[Š],...] f_fCfAf□fO f{fbfNfX,đ•\
Ž!,μ,Ü,·□B^ê“x,É•;□”,ì<Èff□[f^,đŠ],,±
,Æ,ª,Å,«,Ü,·□B•;□”,ì<Èff□[f^,ì•Ò□W,đ□Ø,è’Ö,!,é,É,Í□A[fEfBf“fhfE] f□fjf...
□[,ì[fEfBf“fhfE-¼ 1, 2, ...] fRf}f“fh.,đŽg,Á,Ä,,¾,³,¢□B

□@□V,½,É<Èff□[f^,đ□ì□¬,·,é,É,Í [□V<K□ì□¬] fRf}f“fh,đŽg,Á,Ä,,¾,³,¢□B

fVf†□[fgf]fbfg

f□[f<fo□[: 
fL□[f{□[fh: [Ctrl]+[O]

[Š],...] f_fCfAf□fO f{fbfNfX

[Š],...] f_fCfAf□fO f{fbfNfX,Å,Í□A^È%°º,ìfifvfvf#f“,ª□Ý'è,Å,«,Ü,·□B



ftf@fCf<-¼

ŠJ,«,½,ç<Èff□[f^,ì-¼'O,ð“ü—í,Ü,½,í'l'ð,µ,Ü,·□BfŠfXfg
f{fbfNfX,É,Í□A[ftf@fCf<,ìŽí—p]f{fbfNfX,Å'l'ð,µ,½ftf@fCf<Æ`Ž®,É'í
%ºž,·,éŠg'£ŽqSRT,ðŽ□,Á,½ftf@fCf<,ª^è—·\Ž!,³,è,Ü,·□B



ftf@fCf<,ìŽí—p

ŠJ,«,½,ç<Èff□[f^,ìftf@fCf<,ìŽí—p,ð'l'ð,µ,Ü,·□B(fvf“fO—Š'¾,ÅŽg—
p,·,éftf@fCf<,ìŽí—p,ÍSRT,Å,·)



fhf%ofCfu

ŠJ,«,½,ç<Èff□[f^,ª•Û'¶,³,è,Ä,ç,éfhf%ofCfu,ð'l'ð,µ,Ü,·□B



fffBfÆfNfgfŠ

ŠJ,«,½,ç<Èff□[f^,ª•Û'¶,³,è,Ä,ç,éfffBfÆfNfgfŠ,ð'l'ð,µ,Ü,·□B

[ftf@fCf<]□[•Â,ŕ,é] fRf}f“fh

□@CE»□ÝfAfNfefBfu,É,È,Á,Ä,ç
,é<Èff□[f^,lfEfBf“fhfE,ð•Â,ŕ,Ü,·□BfEfBf“fhfE,ð•Â,ŕ,é‘O,É□Af\f“fO—Š‘¾
,Í<Èff□[f^,ð•Û‘ŕ,·,é,©,Ç,æ,©Šm“F,μ,Û,·□B<Èff□[f^,ð•Û‘ŕ,μ,È,ç
,Å•Â,ŕ,½□ê□#□A‘O%ñ,ì•Û‘ŕŽŽ^È□~ ,É%Á,|,½•ĩ□X“à—e,í,·,×,ÄŽ,í,ê,Ä,μ,Û,ç
,Û,·□B,Û,¾ftf@fCf<-¼,ð•t,¯,Ä,ç,È,ç<Èff□[f^,ð•Â,ŕ,æ,æ,Æ,·,é,Æ□Af\f“fO—Š‘¾
,Í[-¼‘O,ð•t,¯,Ä•Û‘ŕ] f_fCfAf□fO f{fbfNfX,ð•\
Ž|,μ,Û,·,ì,Å□A□ì<Æ‘t,ì<Èff□[f^,É“K□Ø,Èftf@fCf<-¼,ð•t,¯,Ä•Û‘ŕ,·,é,±
,Æ,ª,Å,«,Û,·□B

<Èff□[f^,lfEfBf“fhfE,lfRf“fgf□□[f< f{fbfNfX,ðf_fuf<
fNfŠfbfN,μ,ÄfEfBf“fhfE,ð•Â,ŕ,é,±,Æ,à,Å,«,Û,·□B□i%°□}ŽQ□Æ□j



[ftf@fCf<]□|[□ã□',«•Ů'¶] fRf}f“fh

□ì<Æ't,ì<Èff□[f^,ìftf@fCf<-¼□A•Ů'¶□ê□Š,đ•ï□X,μ,È,ϕ
,Å•Ů'¶,μ,Û,·□B□V<K□ì□¬,μ,½<Èff□[f^,đ□%□,β,Ä•Ů'¶,·,é,Æ,«,É□Aƒf“fO—Š'¾,í[-
¼'O,đ•t,¬,Ä•Ů'¶] f_fCfAf□fO f{fbfNfX,đ•\
Ž|,μ,Û,·,ì,Å□A□ì<Æ't,ì<Èff□[f^,É“K□Ø,Èftf@fCf<-¼,đ•t,¬,Ä•Ů'¶,·,é,±
,Æ,ª,Å,«,Û,·□Bftf@fCf<-¼□A•Ů'¶□ê□Š,đ•ï□X,μ,Ä•Ů'¶,μ,½,ϕ,Æ,«,í□A[-
¼'O,đ•t,¬,Ä•Ů'¶...] fRf}f“fh,đŽg,ϕ,Û,·□B

fVf#□[fgf]fbfg

fc□[f<fo□[
fL□[f{□[fh: [Ctrl]+[S]

[ftf@fCf<]□□[-¼'O,đ•t,¯,Ä•Û'¶...] fRf}f“fh

□ì<Æ't,ì<Èff□[f^,Éftf@fCf<-¼,đ•t,¯,Ä•Û'¶,μ,Û,·□B[-¼'O,đ•t,¯,Ä•Û'¶] f_fCfAf□fO
f{fbfNfX,đ•Ž!,μ,Û,·,ì,Å□A□ì<Æ't,ì<Èff□[f^,É“K□Ø,Èftf@fCf<-¼,đ•t,¯,Ä•Û'¶,·,é,±
,Æ,ª,Å,«,Û,·□B

□ì<Æ't,ì<Èff□[f^,ìftf@fCf<-¼□A•Û'¶□ê□Š,đ•ï□X,μ,È,ç,Å•Û'¶,μ,½,ç
,Æ,«,í□A□[ã□',«•Û'¶] fRf}f“fh,đŽg,ç,Û,·□B

[-¼'O,đ•t, ¯,Ä•Û'¶...] f_fCfAf□fO f{fbfNfX

[-¼'O,đ•t, ¯,Ä•Û'¶...] f_fCfAf□fO f{fbfNfX,Å,Í□Aftf@fCf<-¼,â•Û'¶□ê□Š,đŽw'è,·,é^È%º,lfvfVf¶f“,ª□Ý'è,Å,«,Û,·□B



ftf@fCf<-¼

Æ³,lf tf@fCf<-¼,Æ^á,æ-¼'O,Åftf@fCf<-¼,đ“ü—Í,μ,Û,·□Bftf@fCf<-¼,Í”¼Šp 8

•¶Žš ('SŠp 4 •¶Žš) ,Û,Å,ÅŽw'è,μ□A,»,ê,É”¼Šp 3

•¶Žš,ÌŠg'£Žq,đ•t, ¯,Û,·□BŠg'£Žq,ÍSRT,É,μ,Ä%º,³,¢□B



fhf%ofCfu

<Èff□[f^,đ•Û'¶,·,éfhf%ofCfu,đ'I'đ,μ,Û,·□B



fffBfÆfNfgfŠ

<Èff□[f^,đ•Û'¶,·,éfffBfÆfNfgfŠ,đ'I'đ,μ,Û,·□B

[ftf@fCf<] | [ftf@fCf<-¼ 1, 2, 3, 4,...] fRf}f“fh

[ftf@fCf<] fñjf... [, ì%º•” , É, Í, A'¼'O, É•Â, ¶, ½ftf@fCf<-¼, ¢” Ôñ†, Æ, Æ, à, É, Å'å 4
, Â, Ü, Å•\Ž!, ³, ê, Ü, ·ñB, ±, ±, ©, ç-Ú“l, ìftf@fCf<, ð'l'ð, µ, ÄŠ), , ±, Æ, ¢, Å, «, Ü, ·ñB

[ftf@fCf<]□|[□|—¹] fRf}f“fh

f}f“fO—Š^{3/4}, Å, ì|ì<Æ, ð|—¹, μ, Û, ·□BfAfvfŠfP□[fVf#f“ fEfBf“fhfE, ìfRf“fgf□□[f<
f□fjf...□[.É, ,é [•Â, ¶, é] fRf}f“fh, ðŽg, Á, Ä|ì<Æ, ð|—¹, ·, é, ±
,Æ, à, Å, «, Ü, ·□B<Èff□[f^, É%oÁ, |, 1/2•ï□X“ _^q, Û, 3/4•Û‘¶, ³, ê, Ä, ç, È, ç, Æ, «, í□Afvf“fO—
Š^{3/4}, í•Û‘¶, ·, é, ©, Ç, x, ©Šm”F, ·, éf_fCfAf□fO f{fbfNfX, ð•\Ž!, μ, Û, ·□B

fVf#□[fgf]fbfg

f}fEfX: fAfvfŠfP□[fVf#f“ fEfBf“fhfE, ìfRf“fgf□□[f< f□fjf...
□[f{fbfNfX, ðf_fuf<fNfŠfbfN, μ, Û, ·□B

fL□[f{□[fh: [Alt]+[F4]

[•ÒW][[CE³,É-ß,·] fRf}f“fh

%oÂ“\,Å, ,ê,îA¼‘O,És,Á,½•ÒW‘€ì,ðfLfff“fZf<,μACE³,É-
ß,μ,Ü,·B¼‘O,ì‘€ì,ì“à—e,É,æ,Á,ÄfRf}f“fh-
¼,í•î,í,è,Ü,·B,Ü,½A‘€ì,É,æ,Á,Ä,íCE³,É-ß,¹,È,ç‘€ì,à, ,è,Ü,·B,P,O
%oñ,ì‘€ì,Ü,Å,³,©,ì,Ú,Á,ÄCE³,É-ß,·,±,Æ,ªo—^,Ü,·BCE³,É-ß,·,ªo—^,È,ç
,Æ,«,íA‘WFF,Å [CE³,É-ß,·] ,Æ•\Ž!,³,ê,Ü,·B

[•òw] [[ø, èžæ, è] fRf}f“fh

⊙@⊕»Ÿ'ı'đ,μ,Ä,ç

,éff [f^,đ [[œ,μ,Äfofbftf@f [f,fš,É•Ů'ŋ,μ,Ü,·Bff [f^,ªı'đ,³,ê,Ä,ç,È,ç
,Æ,«,ıA,±,ıfRf}f“fh,ıžg—p,Å,«,Ü,¹,ñB

ff [f^,đfofbftf@f [f,fš,É⊙,èžæ,é,ÆA,»,ê,Ü,Åfofbftf@f [f,fš,É•Ů'ŋ,³,ê,Ä,ç,½“à
—e,ıV,½,É⊙,èžæ,Á,½“à—e,É'uš,³,ê,Ä,μ,Ü,ç,Ü,·B

fVf# [fgf]fbfg

fc [f<fo [: 
fL [f{ [fh: [Ctrl]+[X]

⊙@' [[jff“fo—š'¾,Å,ıff [f^,ª“Æž⊙⊕`ž⊙⊕`ž⊙,É,È,Á,Ä,ç

,Ü,·BfNfšfbvf { [fh,đ⊕o—R,μ,Ä'¼,ıfAfvfšfP [fVf#f“fvf [fOf%of€

,Æff [f^,đ⊕đš·,·,é,±,Æ,ı, ,è,Ü,¹,ñB,æ,Á,Ä,±

,ı'€ [ı,ı^ê”Ê,ıfAfvfšfP [fVf#f“fvf [fOf%of€,Å,ıfNfšfbvf { [fh,ıfRfs [[μ,Ü,·,ªAf\f“fo

—š'¾,Å,ıfNfšfbvf { [fh,ÉfRfs [[μ,Ü,¹,ñB

[•ÒW] [fRfs] fRf}f“fh

Œ»Ý'í'đ,μ,Ä,ç,éff[f^,đfofbftf@f[]f,ŒŠ,É•Û'¶,μ,Û,·Bff[f^,ª'í'đ,³,ê,Ä,ç,È,ç,Æ,«,íA,±,ìRf}f“fh,ÍŽg—p,Å,«,Û,¹,ñB

ff[f^,đfofbftf@f[]f,ŒŠ,ÉfRfs[.,,é,ÆA,»,ê,Û,Åfofbftf@f[]f,ŒŠ,É•Û'¶,³,ê,Ä,ç,½“à—e,íV,½,ÉfRfs[,μ,½“à—e,É'uŠ,³,ê,Ä,μ,Û,ç,Û,·B

fVf‡[fgf]fbfg

fc[f<fo[: 
fL[f{[]fh: [Ctrl]+[C]

@'[]jvf“fo—Š^{3/4},Å,íff[f^,ª“ÆŽ©Œ`Ž®Œ`Ž®,É,È,Á,Ä,ç,Û,·BfNfŠfbfvf{[]fh,đŒo—R,μ,Ä^{1/4},ìAfvfŠfP[]fVf‡“fvf[]Of%of€ ,Æff[f^,đŒđŠ,·,é,±,Æ,í, ,è,Û,¹,ñB,æ,Á,Ä,±,ì'€ì,í^ê”É,ìAfvfŠfP[]fVf‡“fvf[]Of%of€,Å,ìfNfŠfbfvf{[]fh,ìfRfs[,μ,Û,·,ªAfj“fo—Š^{3/4},Å,ìfNfŠfbfvf{[]fh,ÉfRfs[,μ,Û,¹,ñB

[•ÒW]|[“\,è•t,~] fRf}f“fh

fobftf@f f, fŠ, ì“à—e, ìfRfs [, ðj [f\ f<, ì^É'u, É' }“ü, μ, Ü, · Bfobftf@f f, fŠ, É
%o½, à•Ú'¶,³, ê, Ä, ç, È, ç, Æ, «, í A, ±, ìfRf}f“fh, ÍŽg—p, Å, «, Ü,¹, ñ B

fVf# [fgf]fbfg

fc [f<fo [: 
fL [f{ [fh: [Ctrl]+[V]

[•\Ž!]|[fc][f<fo[] fRf}f“fh

fc[f<fo[,l•\Ž!A”ñ•\Ž!,đ∅,è’Ö,!,Ü,·Bfc[f<fo[,É,ÍA[Š],-
...nA[fRfs[[]n,È,Ç,ìA}f“fO—Š^{3/4},ÅÅ,à,æ,Žg,í,è,éfRf}f“fh,Æ“”,¶<@”\
,đŽ,Á,½fc[f<,ŠÜ,Ü,ê,Ä,ç,Ü,·Bfc[f<fo[,•\Ž!,³,ê,Ä,ç,é,Æ,«,ÍA,±,lfRf}f“fh-
^{1/4},ì%o; ,Éf`fFbfNf}[]fN,•\Ž!,³,ê,Ü,·B
[]Ú,μ,,ÍA fc[f<fo[] ,đŽQ[]Æ,μ,Ä,,^{3/4},³,ç[]B

fc [f<fo [



fc [f<fo [, í AfAvfŠfP [fVfj“ fEfBf“fhfE [ã•” , Å Af [ffj... [fo [, , , @ % ° , É • \ Ž ! , ³ , ê , Ü , · [B , ± , ± , É Š Ü , Ü , ê , é fc [f< , ð } fEfX , Å fNfŠfbfN , μ , Ä ‘ € [, μ , Ü , · [B

fc [f<fo [, ì • Ž ! , Æ ” ñ • \ Ž ! , ð [Ø , è ‘ Ö , ! , , é , É , í [A [• \ Ž ! } f [ffj... [, ì [fc [f<fo [[fRf } f“fh , ð ‘ ð , μ , Ü , · [B

fc [f<fo [<@”\



<Èff [f^ , ð [V<K , É [[[[, μ , Ü , · [B



Šù ‘ ¶ , ì <Èff [f^ , ð Šj , « , Ü , · [B f “fo — Š ‘ ¾ , í [Šj ,] f_fCfAf [fo f {fbfNfX , ð • \ Ž ! , μ , Ü , · , ì , Å [A Šj , « , ½ , ç ftf @ fCf< , ð ‘ ð , μ , Ü , · [B



[[ì <Æ ‘ t , ì <Èff [f^ , ð [ã [, « , μ , Ä • Û ‘ ¶ , μ , Ü , · [B , Ü , ¾ <Èff [f^ , É - ¼ ‘ O , ð • t , ¯ , Ä , ç , È , ç , Æ , « , í [A [- ¼ ‘ O , ð • t , ¯ , Ä • Û ‘ ¶] f_fCfAf [fo f {fbfNfX , ð • \ Ž ! , ³ , ê , Ü , · [B



‘ ð , μ , ½ ” í ‘ í , ð [Ø , è Ž æ , Á , Ä [A fofbftf @ f [f , fŠ , É • Û ‘ ¶ , μ , Ü , · [B



‘ ð , μ , ½ ” í ‘ í , ð fRfs [, μ , Ä [A fofbftf @ f [f , fŠ , É • Û ‘ ¶ , μ , Ü , · [B



fofbftf @ f [f , fŠ , ì ff [f^ , ð “ \ , è • t , ¯ , Ü , · [B



[sf } [fN , ð f “ [E f ft , μ , Ü , · [B



[sf } [fN , ð [ã • û Ç ü , É Ç ÿ [ð , μ , Ü , · [B



[sf } [fN , ð % ° • û Ç ü , É Ç ÿ [ð , μ , Ü , · [B



% ° ¹ • , , f p f Ç f b f g , ì • \ Ž ! [A ” ñ • \ Ž ! , ð [Ø , è ‘ Ö , ! , Ü , · [B



fR [f h f p f Ç f b f g , ì • \ Ž ! [A ” ñ • \ Ž ! , ð [Ø , è ‘ Ö , ! , Ü , · [B



Šg ‘ å • Ò [W f p f Ç f b f g , ì • \ Ž ! [A ” ñ • \ Ž ! , ð [Ø , è ‘ Ö , ! , Ü , · [B



Ç ø % ° Ê f p f Ç f b f g , ì • \ Ž ! [A ” ñ • \ Ž ! , ð [Ø , è ‘ Ö , ! , Ü , · [B



Œ®"ŒfƒŒfbfg,ì•\Ź!ŒA"ň•\Ź!,đŒØ,è'Ö,!,Ü,ŒB



•@%ò,ì"SŒlf_fCfAŒfŒfOf{fbfNfX,đŠJ,«,Ü,ŒB



'Sfgf%ŒfbfN,đf~fbfNfX,μ,Ä%Œ%Œ't,μ,Ü,ŒB



ŒJ,è•Ô,μ%Œ%Œ't,μ,Ü,ŒB



fAfNfefBfu,ÈfEfBf"fhŒ[,ìffŒ[f^,đ%Œ%Œ't,μ,Ü,ŒB



%Œ%Œ't,đ'âŹ~,μ,Ü,ŒB



Źw'è,μ,½"í^í,ìfRŒ[fh,đ"»•Ê,μ,Ü,ŒB



,Ü, ',Ü,È"••ª,É,Â,ç,Ä,ìfwf<fvŒî•ň,đ•\Ź!,μ,Ü,ŒB

[•\Ž!]| [fXfe [f^fXfo [] fRf}f“fh

fXfe [f^fXfo [,ì•\Ž! [A” ñ•\Ž! , ð Ø , è ‘ Ö , ï , Ü , · [BfXfe [f^fXfo [, É , Í [Af [fj f...
[[fRf}f“fh , â f c [[f < fo [[, ì f {f^f“ , ð ‘ ì ‘ ð , μ , ½ , Æ , « , É fRf}f“fh , ì Š È ‘ P , È [à - ¾ , â [Af] [[f
f < , ì , , é [s “ Ô [t , â • \Ž! , ¾ , é , Ü , · [BfXfe [f^fXfo [[, â • \Ž! , ¾ , é , Ä , ç , é , Æ , « , Í [A , ± , ì fRf}f“fh -
¾ , ì % o ; , É f ` fFbfNf} [[fN , â • \Ž! , ¾ , é , Ü , · [B

[Ú , μ , , Í [A [fXfe [f^fXfo [[] , ð Ž Q [Æ , μ , Ä , , ¾ , ¾ , ç [B

fXfe[f^fXfo

されます 上書 1行 2小節 2行 9小節

fXfe[f^fXfo[.íA]f“fO—Š’¾,lfEfBf“fhfE,ì^ê”Ô%º,É•\
Ž!,³,ê,Ü,·BfXfe[f^fXfo[,ì•\Ž!;A”ñ•\Ž!,ð∅,è’Ö,!,é,É,íA[•\Ž!] f[]fj...[][,ì
[fXfe[f^fXfo[]] fRf}f“fh,ð’l’ð,µ,Ä,,¾,¾,ç∅B
fXfe[f^fXfo[,ì∅¶’α,ì•”•ª,É,íA]f[]fj...
[]fRf}f“fh,ð’l’ð,µ,½,Æ,«,É,»,ê,¼,ê,ìŠÈ’P,È∅à-¾,ª•\Ž!,³,ê,Ü,·∅B“—
l,É∅A]fç[]f<fo[],ìf{f^f“ ,ð%öÿ,µ,½,Ü,Ü,É,µ,Ä,àŠÈ’P,È∅à-¾,ª•\Ž!,³,ê,Ü,·∅B∅à-
¾,ð∅©,½∅ä,Ä,»,ìfc[]f<fo[],ìfRf}f“fh,ìŽÀ∅s,ð’tŽ~,µ,½,ç,Æ,«,íA]f}fEfX fl
fCf“f^ ,ð,»,ìfc[]f<fo[] f{f^f“^ÈŠO,ì^Ê’u,É^Ú“® ,µ,Ä]f}fEfX f{f^f“ ,ð—£,µ,Ü,·∅B
∅ã[]},É,“,ç,Ä∅ã[]’,í∅»∅Ý,ì•Ò∅Wf,∅[fh,ª∅ã[]’,«,Ä, ,é,±
,Æ,ðŽ!,µ,Ü,·∅B•Ò∅Wf,∅[fh,ª’}“ü,ì,Æ,«,í<ó” ,ì•\Ž!,É,È,è,Ü,·∅B
∅ã[]},É,“,ç,Ä,Q∅s∅A,X∅-∅β,Æ•\Ž!,µ,Ä,ç,é•”•ª,íA∅»∅Ý,ìfj]f∅f∅fg,ì^Ê’u,Ä,·∅B
∅ã[]},É,“,ç,Ä,P∅s∅A,Q∅-∅β,Æ•\Ž!,µ,Ä,ç
,é•”•ª,íA”í^íŽw’è,µ,½,Æ,«,ìŠŽn^Ê’u,Ä,·∅B”í^í,ðŽw’è,ç,È,ç,Æ,«,í<ó”•\
Ž!,É,È,è,Ü,·∅B

[•\Ž!]|["ÍÍŽw'è%øðœ] fRf}f“fh

"ÍÍŽw'è,ø%øðœ,μ,Û,·Bfj|[f<,ª, ,éÊ'u,Æ,ÍÛ,È,éÊ'u,ðNfŠfbfN,μ,Ä,à"ÍÍŽw'
è,ø%øðœ,μ,Û,·B

[fEjBf“fhfE]□|([V,μ,ϕEjBf“fhfE,đŠ],) fRf}f“fh

□ì<Æ't, ìfEjBf“fhfE, Æ“̄, ¶“à—e, đ•\Ž!, ·, é•Ê, ìfEjBf“fhfE, đŠ], «, Ü, ·□B1
, Â, ì<Èff□[f^, É'Î, μ, Ä•;□”, ìfEjBf“fhfE, đŠ], ·, ±, Æ, ð, Å, «, é, ì, Å□A1 , Â, ì<Èff□[f^, ì, ϕ, ë, ϕ
, ë, È•”•ð, ð, »), ê, ¼, ê, ìfEjBf“fhfE, É•\Ž!, ·, é, ±, Æ, ð, Å, «, Ü, ·□B1
, Â, ìfEjBf“fhfE, Å<Èff□[f^, ì“à—e, đ•İ□X, ·, é, Æ□A, »), ì<Èff□[f^, đ•\
Ž!, ·, é'¼, ì, ·, x, Ä, ìfEjBf“fhfE, É, à, »), ì•İ□X, ð”½%of, ð, é, Ü, ·□B□V<KfEjBf“fhfE, đŠ], -
, Æ□A, »), ìfEjBf“fhfE, ðfAfnfefBfu, É, È, è□A'¼, ìfEjBf“fhfE, ì'O-Ê, É•\Ž!, ð, é, Ü, ·□B

[fEfBf“fhfE]□|[□d,Ě,Ä•\Ž!} fRf}f“fh

•i□”,lfEfBf“fhfE,đ□d,Ě,Ä•\Ž!,μ,Ü,·□B

[fEfBf“fhfE]□|[•À,x,Ä•\Ž!} fRf}f“fh

•i□”,lfEfBf“fhfE,đ•À,x,Ä•\Ž!,μ,Û,•□B

[fEfBf“fhfE]□|[fAfCfRf“,ì□®—ñ] fRf}f“fh

fAfvfŠfP□[fVf†f“,ìf□fCf“ fEfBf“fhfE,ì^ê”Ô%oo,ÉfAfCfRf“%oo»,³,ê,Ä,ç
,éfEfBf“fhfE,đ□®—ñ,³,¹,Û,·□B<Èff□[f^,ìfEfBf“fhfE,³Š],ç,Ä,ç,Ä□Af□fCf“
fEfBf“fhfE,ì^ê”Ô%oo,ì•”•²,É,©,©,Á,Ä,ç,é□ê□±□A,±,ìfEfBf“fhfE,ì%oo,É,È,Á,Ä,ç
,éfAfCfRf“,ÍÆ©,ì,Û,¹,ñ□B

[fEfbf“fhfE]□|[fEfbf“fhfE-¼ 1, 2, ...] fRf}f“fh

fj“fo—Š¼ ,^aCE»□ÝŠ],ç,Ä,ç,é<Èff□[f^fEfbf“fhfE,lfŠfXfg,^a [fEfbf“fhfE] f□jff...
□[,ì,ç,ç,î,ñ%°°,É•\Ž,³,ê,Ü,·□B,Ü,½□ACE»□ÝfAfNfefBfu,É,È,Á,Ä,ç
,é<Èff□[f^fEfbf“fhfE-¼,ì%°°,Éf`fFbfNf}□[fN,^a\
Ž,³,ê,Ü,·□BfAfNfefBfu,É,μ,½,ç<Èff□[f^fEfbf“fhfE,ø'ì'ø,μ,Ä,,¼,³,ç□B

[fwf<fv]□|[-ÚŽŸ] fRf}f“fh

fwf<fv, ì□Å□%o, ì%oæ-Ê, ð•\Ž|, μ, Ü, ·□B, ±, ì%oæ-Ê, ©, ç□Aƒf“fO—Š‘¾
, ì‘€□ìŽè□‡, âfŠftf@fƒf“fX, È, ÇŠÖ~A□î•ñ, ì□€-Ú, ÖfWfff“fv, μ, Äfwf<fv, ð“Ç, P, ±
, Æ, a, Å, «, Ü, ·□B

fwf<fv□€-Ú, ðŽQ□Æ, μ, ½ƒæ□A□Å□%o, ì%oæ-Ê, Ê-β, é, É, Í□Afwf<fv fEfBf“fhfE, ì <-
ÚŽŸ> f{f^f“, ð‘ð, μ, Ü, ·□B

[fwf<fv]□|[fwf<fv,ìŽg,ç•û] fRf}f“fh

fwf<fv,ìŽg,ç•û,ìà^{-3/4},đ•\Ž|,μ,Û,·□B

[fwf<fv] | [fR [fh i s] fRf} f“fh

Šî-{"I, ÈfR [fh i s, ð • \Ž |, μ, Ü, · B

[fwf<fv]□|[fo□[fWf#f“□î•ñ...] fRf}f“fh

fj“fo—Š³/₄ ,lfo□[fWf#f“,â”ÅÆ ,È,Ç,É,Â,ç,Ä,ìî•ñ,ð•Ž!,μ,Ü,·□B

☐ó<μ^Ě'¶,ìfwf<fv] fRf}f“fh

f\f“fO—Š‘¾ ,É,“,ç,Ä☐A,³,Ü,´,Ü,È•”•ª,É,Â,ç,Ä,ìfwf<fv☐î•ň,ð•\
Ž!,μ,Ü,·☐Bfc☐[f<fo☐[,ì [☐ó<μ^Ě'¶,ìfwf<fv] f{f^f“,ð‘l‘ð,·,é,Æ☐Af}fEfX fl
fCf“f^,ìCE`,ª-î^ó,Æ<^-â•,,ð‘g,Ý☐‡,í,¹,½,à,ì,É•Ĭ,í,è,Ü,·☐B,±
,ì☐ó‘Ô,Å☐Afc☐[f<fo☐[,ì‘¼,ìf{f^f“,È,Ç☐Af\f“fO—Š‘¾
,ìfEfBf“fhfE,ì•”•ª,ðfNfŠfbfN,·,é,Æ☐A,»),ì•”•ª,É‘î%ž,·,éfwwf<fv☐î•ň,ª•\Ž!,³,ê,Ü,·☐B

fVf‡☐[fgf]fbfg

fc☐[f<fo☐[: 
fL☐[f{☐[fh: [Shift]+[F1]

f^fCfjg< fo[]

fEfBf“fhfE[]ã'[,ì[]AfAvfšP[]fVf#f“-1/4,â<Èff[]f^-1/4,â•\Ž|,³,ê,é•”•â,Å,·[]B

f^fCfjg< fo[],ðfhf%oofbfO,μ,Ä[]AfEfBf“fhfE,ð^Ú“® ,Å,« ,Ü,·[]B

ŽQ[]: f_fCfAf[]fo f{fbfNfX,É,àf^fCfjg< fo[],â, ,è[]Afhf%oofbfO,μ,Ä^Ú“® ,·,é,± ,Æ,â,Å,« ,Ü,·[]B

f^fCfjg< fo[],É,íŽŸ,ì—v'f,âŠÜ,Ü,ê,Ü,·[]B

- fAvfšP[]fVf#f“,ìfRf“fgf[]f< f[]fj...[] f{fbfNfX
- <Èff[]f^,ìfRf“fgf[]f< f[]fj...[] f{fbfNfX
- <[]Å'â•\Ž|> f{f^f“
- <fAfCfRf“%o»> f{f^f“
- fAvfšP[]fVf#f“-1/4
- <Èff[]f^-1/4
- <Æ³,ìTfCfY,É-ß,·> f{f^f“

FXfNf[]f< fo[]

<Èff[]f^fEfBf“fhfE,ì%oE'[,Æ%oo°'[,É•\Ž|,³,ê,Ü,·[]BfXfNf[]f< fo[][,ì†,ìfXfNf[]f<
f{fbfNfX,í[]A<Èff[]f^'†,ìCE»[]Ý,ì^Ê'u,ðŽ|,μ,Ü,·[]Bf}fEfX,ðŽg,α
,Æ<Èff[]f^“à,ì'¼,ì•”•ª,ÖfXfNf[]f<,·,é,±,Æ,ª,Å,«,Ü,·[]B

[fTfCfY•iX] fRf}f“fh (fRf“fgf[f< f]fj...[[])

,±,lfRf}f“fh,đ'ı'đ,·,é,Æ[Af}fEfX f|fCf“f^,ª[ã%º[¶%ºE,É-î^ó,ì•t,ç,½CE`
(%º[¶]ŽQ[Æ),É•ĩ,í,è,Û,·[B,±
,ì[ó'Ô,Å[A•ûCEüfL[[,đŽg,Á,Ä[ı<Æ't,lfEfBf“fhfE,lfTfCfY,đ•i[X,·,é,±
,Æ,ª,Å,«,Û,·[B



f}fEfX f|fCf“f^,ìCE`,ª•ĩ,í,Á,½,ç[A^È%º,ì'€[ì,đ[s,ç,Û,·[B

1. •ûCEüfL[[,ì,ç,ê,© 1 ,Â ([ã[A%º[A¶[A%ºE)
,đŽg,Á,ÄfEfBf“fhfE,ì<«ŠE,đ^Ú“® ,µ,Û,·[B
2. ,à,ª 1 ,Â,ì•ûCEü,ÉfEfBf“fhfE,ì<«ŠE,đ^Ú“® ,µ,Û,·[B
3. fEfBf“fhfE,ª-Ú“ı,lfTfCfY,É,È,Á,½,ç[A[Enter] fL[[,đ%ºÿ,µ,Û,·[B

'[^Ó: ,±,lfRf}f“fh,lfEfBf“fhfE,ª[Å'â•\Ž!,³,ê,Ä,ç,é,Æ,«,É,íŽg—p,Å,«,Û,¹,ñ[B

fVf#[]fgf]fbfg

f}fEfX: fEfBf“fhfE,ìŠp,©<<ŠE,lfTfCfY fo[[,đfhf%ºfbfO,µ,Û,·[B

[^Ú“®] fRf}f“fh (fRf“fgf□□[f< f□fjf...□l)

, ±, ìfRf}f“fh, ð'í'ð, ·, é, Æ□Af}fEfX f|fCf“f^, ðã%°□¶%°E, É-î^ó, ì•t, ç, ½CE`
(%°°□}ŽQ□Æ), É•ĩ, í, è, Ü, ·□B, ±
, ìó'Ô, Å□A•ûCEüfL□[, ðŽg, Á, Ä□ì<Æ't, ìfEfBf“fhfE, ð^Ú“® , ·, é, ±, Æ, ð, Å, «, Ü, ·□B
✚

'□^Ó: , ±, ìfRf}f“fh, ìfEfBf“fhfE, ð□Å'â•\Ž!, ð, ê, Ä, ç, é, Æ, «, É, ÍŽg—p, Å, «, Ü, ¹, ñ□B

fVf#□[fgf]fbfg

fL□f{□[fh: [Ctrl]+[F7]

[fAfCfRf“%oo»] fRf}f“fh (fRf“fgf□□[f< f□fj...□(

f}fO—Š'¾ ,ìEfBf“fhfE,đfAfCfRf“%oo»,μ,Ä•\Ž|,μ,Ü,·□B

fVf†□[fgf]fbfg

f}fEfX: f^fCfgef< fo□[,ì ■ ,đfNfŠfbfN,μ,Ü,·□B
fL□[f{□[fh: [Alt]+[F9]

[Å'•Ž:] fRf}f"fh (fRf"fgf[f< f[fjf...[)

ì<Æ't,ìfEfBf"fhfE,ðAŽg—p%oÂ"\,ÈfXfy[fX,ç,Á,Ī,ç,ÉŠg'å,μ,Û,·B

fVf#[fgf]fbfg

f}fEfX: f^fCfgy< fo[,ì ,ðfNfŠfbfN,μ,Û,·B
,Û,½,íAf^fCfgy< fo[,ðf_fuf< fNfŠfbfN,μ,Û,·B
fL[f{[fh: [Ctrl]+[F10] (<Èff[f^fEfBf"fhfE,ìê#)

[‘O, ìfEjBf“fhfE, É-ß, é] fRf}f“fh (<Èff[]f^fRf“fgf[][]f< f[]jf...[])

Šj, ©, ê, Ä, ç, é•i”, ì<Èff[]f^fEjBf“fhfE, ©, ç[]A^È‘O, ÉŠj, ©, ê, Ä, ç
, ½<Èff[]f^fEjBf“fhfE, ðfAfNfefBfu, É, µ, Ü, ·[]B, Ç, ì<Èff[]f^fEjBf“fhfE, ðfAfNfefBfu, É,
È, é, ©, í[]AŠj, ©, ê, ½[]#”Ô, É, æ, è, Ü, ·[]B

fVf†[]fjgJfjbfjg

fL[]f{[]fh: [Shift]+[Ctrl]+[F6]

[•Â,ŕ,é] fRf}f“fh (fRf“fgf□□[f< f□fj...□])

□ì<Æ’t, ìfEfBf“fhfE, âf_fCfAf□fO f{fbfNfX, ð•Â,ŕ,Ü,·□B

fRf“fgf□□[f< f□fj...□] f{fbfNfX, ðf_fuf< fNfŠfbfN, μ, Ä, à•Â,ŕ,é, ±, Æ, æ, Å, «, Ü, ·□B


‘□^Ó: 1 ,Â, ì<Èff□[f^, É’í, μ, Ä•j□”, ìfEfBf“fhfE, æŠ, ç, Ä, ç
, é□ê□#□A<Èff□[f^fEfBf“fhfE, ìfRf“fgf□□[f<-[•Â,ŕ,é]
fRf}f“fh, ð’l’ð, μ, Ä, à□A•Â,ŕ,ç, é, é, ì, í, »), ìfEfBf“fhfE, ¾, ¯, Å, ·□B“¯, ŕ<Èff□[f^, ì, ·,
x, Ä, ìfEfBf“fhfE, ð^è“x, É•Â,ŕ,é, É, í□A[ftf@fCf<] f□fj...□], ì [•Â,ŕ,é]
fRf}f“fh, ðŽg, ç, Ü, ·□B

fVf#□[fgf]fbfg

fL□[f{□[fh: [Ctrl]+[F4] (<Èff□[f^fEfBf“fhfE, ì□ê□#)
[Alt]+[F4] (fV“fO—Š¾ fEfBf“fhfE, ¯, æ, Ňf_fCfAf□fO
f{fbfNfX, ì□ê□#)

[fAfvfŠfP[fVf†f“ ,ì∅,è‘Ö,¡,...] fRf}f“fh (fAfvfŠfP[fVf†f“ fRf“fgf∅[f< f∅jf...∅[)

Œ»∅Ÿ<N“® ,μ,Ä,ç,éfAfvfŠfP[fVf†f“ ,ì^è——,ð•\Ž!,μ,Ü,∅B,±,ì"f^fXfN fŠfXfg",Å∅AfAfvfŠfP[fVf†f“ ,ð∅∅,è‘Ö,¡,½,è∅|—^{1,3,1,½,è,Å,«,Ü,∅B}

fVf†∅[fgf]fbfg

fL∅[f{∅[fh: [Ctrl]+[Esc]

f_fCfAf∅fO f{fbfNfX,ìfifvfVf†f“

f_fCfAf∅fO f{fbfNfX,Å^È%º,ìfifvfVf†f“ ,Žw’è,Å,«,Ü,∅B

fAfvfŠfP[fVf†f“ ,ì∅,è‘Ö,¡

Žg—p, ,éfAfvfŠfP[fVf†f“ ,Ü,½,í•Â,¶,éfAfvfŠfP[fVf†f“ ,ð‘ì’ð,μ,Ü,∅B

∅,è‘Ö,¡

‘ì’ð,³,è,½fAfvfŠfP[fVf†f“ ,ðfAfNfefBfu,É,μ,Ü,∅B

fAfvfŠfP[fVf†f“ ,ì∅|—¹

‘ì’ð,³,è,½fAfvfŠfP[fVf†f“ ,ð•Â,¶,Ü,∅B

fLfff“fzf<

f_fCfAf∅fO f{fbfNfX,ð•Â,¶,Ü,∅B

∅d,Ë,Ä•\Ž!

<N“® ,μ,Ä,ç,éfAfvfŠfP[fVf†f“ ,ìfEfBf“fhfE,ð∅†∅X,É∅d,Ë,Ä∅A,» ,è,¼,è,ìf^fCfGf< fo∅[,ŒŒ© ,¡,é,æ,æ,É•\Ž!,μ,Ü,∅BfAfCfRf“%º» ,³,è,Ä,ç ,éfAfvfŠfP[fVf†f“ ,í•Â,Ñ,© ,¡,ç,è,Ü,¹,ñ∅B

•Ä, x, Ä•\Ž!

<N“® ,μ,Ä,ç,éfAfvfŠfP[fVf†f“ ,ìfEfBf“fhfE,ðŒŸ,ç,É∅d,È,è∅†,í,È,ç,æ,æ,É•\ Ž!,μ,Ü,∅BfAfCfRf“%º» ,³,è,Ä,ç,éfAfvfŠfP[fVf†f“ ,í•Â,Ñ,© ,¡,ç,è,Ü,¹,ñ∅B

fAfCfRf“ ,ì∅® —ñ

fAfCfRf“%º» ,³,è,Ä,ç,éfAfvfŠfP[fVf†f“ ,ð%ºæ-È,ì%ºº•” ,É•Ä, x, Ä•\Ž!,μ,Ü,∅B

[•\Ž!]||[æ“ªs] fRf}f“fh

@æ“ªs,ÉfWfff“fv,µ,Ä•\Ž!,µ,Ü,·B

fVf‡[fgf]fbfg

fL[f{[fh: [Ctrl]+[Home]

[•\Ž!]|[] [Å|s] fRf}f“fh

@Å|s,ÉfWfff“fv,μ,Ä•\Ž!,μ,Ü,·B

fVf‡[] [fgf]fbfg

fL[]f{[]fh: [Ctrl]+[END]

[•\Ž!][Žw'è[s] fRf}f“fh

@s"Ôt,ÅŽw'è,μ,½s,ÉfWfff“fv,μ,Ä•\

Ž!,μ,Ü,•B s"Ôt,ìŽw'è,í[s"Ôt,ìŽw'è] f_fCfAf_fO_f{fbfNfX,Å,“,±,È,ç,Ü,•B

[s"Ôt,ìžw'è] f_fCfAfO f{fbfNfX

@s"Ôt,đ"Žš,Å"ü—í,μ,Û,·B""l,í,P,©,çÅI[s"Ôt,Å•\Ž|,³,ê,Ä,ç
,é'l,ì"í^í,Å"ü—í,μ,Ä%º,³,çB

[•\Ž!;] [{}sf} [fNON/OFF] fRf}f“fh

[@{}sf} [fN,đflf“ [Eflft,μ,Û,·B{}sf} [fN,đŽw'è,·,é,±
,Æ,É,æ,è [ACE» [Y•Ò [W't,ì[s,È,Ç“Á'è,ì[s,đ,đ,·,î,â,Œ©,Â,¯,é,±,Æ,^aÅ,«,Û,·B,±
,ìfRf}f“fh,ìfNfŠfbfN,·,é,^z,Æ,ÉfjfŒfbfg,ì, ,é[s,ìf} [fN,ìflf“ [^flft,^aŒđŒY,É,©,í,è,Û
,·B{}sf} [fN,μ,½[s,Í”wŒi,^a
%© [F,É,©,í,è,Û,·B{}sf} [fN,μ,½[s,É'î,μ,Ä,Â,¬,ìfRf}f“fh,^aŽg,!,Û,·B



[{}sf} [fN [äŒY [ö]



[{}sf} [fN %°ŒY [ö]



[{}sf} [fN,ìfNfŠfA]

fVf† [fgf]fbfg

fc [f<fo [[:



[•\Ž!]|[]sf}[]fN[ãŸ[õ] fRf}f“fh

[]@[]sf}[]fN,ð[ã•ûŸü,ÉŸ[õ,μ,Û,·[]B[]sf}[]fN,ð,μ,½[]s,^a,Ý,Â,©,é,Æ[]A,»>[]s,ð^
ê”Ô[ã•”,É•\Ž!,μ,Û,·[]B

fVft[]fgfjfbfg

fc[]f<fo[]:



[•\Ž!]|[]sf}[]fN%°CEŸ[]õ] fRf}f“fh

[]@[]sf}[]fN,đ

%°•ûCEü,ÉCEŸ[]õ,μ,Û,·[]B[]sf}[]fN,đ,μ,½[]s,^a,Ý,Â,©,é,Æ[]A,»,ì[]s,đ^ê”Ô[]ã•”,É•\
Ž!,μ,Û,·[]B

fVft[]fgfjfbfg

fc[]f<fo[][:



[•\Ž!]|[]sf}[]fN,ifNfŠfA] fRf}f“fh

[]@,·,×,Ä,ì[]sf}[]fN,đfNfŠfA,μ,Ü,·[]B,·,×,Ä,ì[]sf}[]fN,ª•K—v,È,-
,È,è'S•”^ê“x,É[]sf}[]fN,đfift,μ,½,ç,Æ,«,É,±,ìfRf}f“fh,đŽg,α,Æ•Ö—
~,Å,·[]B[]sf}[]fN,đ,P[]sfift,É,·,é,É,í[]sf}[]fNON/OFF],đŽg,ç,Ü,·[]B

[fwf<fv]□|[fR□[fh”»•Ê] fRf}f“fh

□@Žw'è,μ,½”í^í,ìfR□[fh,ð”»•Ê,μ,Ü,·□BfR□[fh,ì”»•Ê,í[fR□[fh,ì”»•Ê] f_fCfAf□fO
f{fbfNfX,Å,“,±,È,ç,Ü,·□B

□@f□f□fffBCE`Ž®ftf@fCf<,Å—LCEø,Å,·□BfŠfYf€CE`Ž®ftf@fCf<,Å,í<@”\,μ,Ü,¹,ň□B

fVft□[fgf]fbfg

fc□[f<fo□[:

!?

[fR[fh"»•Ê] f_fCfAf_fOf{fbfNfX

□@Žw'è,μ,½"í^í,lfR[fh,đ"»•Ê,μ,Ü,·□BfR[fh,í'æ,PŒó•â□A'æ,QŒó•â□A'æŽO
Œó•â,ì,RŽí—p,É"»•Ê,³,ê,Ü,·□B



'æ,PŒó•â

□@fR[fh,đ□□¬,·,é%¹,ì'S",ªŽw'è,³,ê,½"í^í,ÅŽg,í,ê,Ä,ç,é,Æ,«,É'l'è,³,ê,Ü,·□B



'æ,QŒó•â

□@fR[fh,đ□□¬,·,é%¹,ì,Q,Â^È□ã,ªŽw'è,³,ê,½"í^í,ÅŽg,í,ê,Ä,ç
,é,Æ,«,É'l'è,³,ê,Ü,·□B



'æ,RŒó•â

□@fR[fh,đ□□¬,·,é%¹,ì,P,Â^È□ã,ªŽw'è,³,ê,½"í^í,ÅŽg,í,ê,Ä,ç
,é,Æ,«,É'l'è,³,ê,Ü,·□B

'æ,PŒó•â□A'æ,QŒó•â□A'æ,RŒó•â,ì□‡,Å"»•Ê,³,ê,½fR[fh,ª"K□Ø,Å, ,é%Å"\
□«,ª□,,È,Á,Ä,ç,Ü,·□B,μ,©,μ□A,±,ì□‡,ª,·,x,Ä,Å,í, ,è,Ü,¹,ñ□BfR[fh,í,¶,Á,,è'®,ç
,Ä,Ý,Ä,©,ç"»'è,μ,Ä%º,³,ç□B,Ü,½fR[fh,É,Â,ç
,Ä'S'R'mŽ~,ì,È,ç□l,í□AfR[fh□i□s,lfwf<fv,đŽQ□Æ,μ,È,ª,ç"»'è,·,é,ÆŒø—|"l,Å,·□B

fŠfXfgf{fbfNfX,É•\

Ž|,³,ê,½fR[fh,đf_fuf<fNfŠfbfN,·,é,Æ□AŽw'è,μ,Ä"í^í,Æf_fuf<fNfŠfbfN,μ,½fR[fh,đ
%º%º't,μ,Ü,·□BfR[fh,íSynthString1 ,Å%º%º't,³,ê,Ü,·□B,±,ì<@"\
,lfR[fh,ª"K□Ø,Å, ,é,©Šm"F,·,é,ì,É'â•ï•Ö—~,Å,·□B



Žw'è,μ,½"í^í,đ%º%º't,μ,Ü,·□B



%º%º't,đ'âŽ~,μ,Ü,·□B

ff [f^fx [fXfŠftf@fœf“fx

ff [f^fx [fX, Åftf@fCf<, ÌŠÇ—, ð, µ, Ü, ·Bftf@fCf<, ð•ª—p, ·, é, ±
, Æ, É, æ, è; i, Ü, Å, É, Ì, µ, ½<Èff [f^, Ìœÿ ð,ª—e^ Õ, É, È, è, Ü, ·B
ff [f^fx [fX, Å“o~^, Å, «, é, Å’åfœfR [fh], Í, P, C, O, O, Oœ, Å, ·B

f [fj f... [

[ftf@fCf<] f [fj f... [

[fœfR [fh] f [fj f... [

[%o%o’t] f [fj f... [

[fwf<fv] f [fj f... [

ŽQ Æ F [fc [f<fo [

ff[f^fx][fX
[ftf@fCf<] f[fjf...][fRf}f“fh

[ftf@fCf<] f[fjf...][,É,Í^È%º,ì,æ,α,ÈfRf}f“fh,^a, ,è,Ü,·□B

<u>[□V<K□ì□¬...]</u>	ff[f^fx][fX,ð□V<K,É□ì□¬,μ,Ü,·□B
<u>[Š],...]</u>	Šù‘¶,ìff[f^fx][fX,ðŠ],«,Ü,·□B
<u>[•Â,¶,é]</u>	Œ»□ÝŠ],ç,Ä,ç,éff[f^fx][fX,ð•Â,¶,Ü,·□B
<u>[□ã□’,«•Û‘¶]</u>	□ì<Æ’t,ìff[f^fx][fX,ð□ã□’,«,μ,Ä•Û‘¶,μ,Ü,·□B
<u>[=</u>	□ì<Æ’t,ìff[f^fx][fX,É□V,μ,ç-¼‘O,ð•t,¯,Ä•Û‘¶,μ,Ü,·□B
<u>¼‘O,ð•t,¯,Ä•Û‘¶...]</u>	
<u>[□ —¹]</u>	ff[f^fx][fX,ð□ — ¹ ,μ,Ü,·□B

ff [f^fx [fX

[fCFR [fh] f [fjf... [fRf}f"fh

[fCFR [fh] f [fjf... [,É,Í^È%º,ì,æ,α,ÈfRf}f"fh,ª, ,è,Ü,·B

[Å%º,ì^Ê'u]

fCFR [fh,ðÅ%º,ì^Ê'u,É^Ú"®,μ,Ü,·B

[ÅĀ,ì^Ê'u]

fCFR [fh,ðÅĀ,ì^Ê'u,É^Ú"®,μ,Ü,·B

[ĀĀđđ]

ĀĀđ,·,é,½,β,ìđđ,đŽw'è,μ,Ü,·B

[O•ûĀĀ]

Ā»Ÿ,ìfCFR [fh^Ê'u,©,ç'O•û,ÉĀĀđ,μ,Ü,·B

[Ā•ûĀĀ]

Ā»Ÿ,ìfCFR [fh^Ê'u,©,çĀ•û,ÉĀĀđ,μ,Ü,·B

[íœ]

fCFR [fh,ðíœ,μ,Ü,·B

[à—e,ì'ù³]

fCFR [fh,ì'ù³,đ,μ,Ü,·B

[V<K"o~^]

fCFR [fh,ìV<K"o~^,đ,μ,Ü,·B

[—]

Žw'è,μ,½fCFR [fh,ìftf@fCf<,đf"fo—Š'¼,É"—,μ,Ü,·B

ff [f^fx [fX

[%%%'t] f [fjf... [fRf}f"fh

[%%%'t] f [fjf... [,É,Í^È%°ò,ì,æ,α,ÈfRf}f"fh,ª, ,è,Ü,·B

[%o Žw'è,μ,½ftf@fCf<,ð%%%'t,μ,Ü,·B

%'t]

['âŽ~] %%%'t,ì'âŽ~,ð,μ,Ü,·B

ff[f^fx[fX

[ftf@fcf<] |[[V<Kò[-] fRf}f“fh

V<K,ìff[f^fx[fX,ðò[-,μ,Ü,·B

Šù‘¶,ìff[f^fx[fX,í[Š],...] fRf}f“fh,ÅŠJ,«,Ü,·B

fVf# [fgf]fbfg

fc[f<fo[: 
fL[f{[fh: [Ctrl]+[N]

ff[f^fx][fX

[ftf@fCf<] [][•Â,ŋ,é] fRf}f“fh

ff[f^fx][fX,đ•Â,ŋ,Û,•Bff[f^fx][fX,đ•Â,ŋ,é‘O,É□AfCEfR□[fh,ì□C□³,â□V,μ,ϕfCEf
R□[fh,ì‘Ç%oÁ,μ,½,Æ,«f“fO—Š‘¾,Íff[f^fx][fX,đ•Û‘ŋ,•,é,©,Ç,κ
,©Šm“F,μ,Û,•Bff[f^fx][fX,đ•Û‘ŋ,μ,È,ϕ,Å•Â,ŋ,½□ê□#□A‘O%oň,ì•Û‘ŋŽž^È□~ ,É
%oÁ,½•İ□X“à—e,í,•,x,ÄŽ, ,í,ê,Ä,μ,Û,ϕ,Û,•B,Û,¾ftf@fCf<-¼,đ•t,¯,Ä,ϕ
,È,ϕff[f^fx][fX,đ•Â,ŋ,æ,κ,Æ,•,é,Æ□Af“fO—Š‘¾
,í□<Æ‘t,Ìff[f^fx][fX,É“K□Ø,Èftf@fCf<-¼,đ•t,¯,Ä•Û‘ŋ,•,é,±,Æ,ª,Å,«,Û,•B

fEfBf“fhfE,ÌfRf“fgf□□[f< f{fbfNfX,đf_fuf< fNfŠfbfN,μ,ÄfEfBf“fhfE,đ•Â,ŋ,é,±
,Æ,à,Å,«,Û,•B

ff[]f^fx[]fX

[ftf@fCf<][][][[]ã[]',«•Û'¶] fRf}f"fh

[]<Æ't,]ff[]f^fx[]fX,]ftf@fCf<-¼[]A•Û'¶[]ê[]Š,ð•ï[]X,μ,È,ç
,Å•Û'¶,μ,Û,·[]B[]V<K[]ì[]¬,μ,½ff[]f^fx[]fX,ð[]%o
,ß,Ä•Û'¶,·,é,Æ,«,É[]A[]ì<Æ't,]ff[]f^fx[]fX,É"K[]Ø,Èftf@fCf<-¼,ð•t,¬,Ä•Û'¶,·,é,±
,Æ,ª,Å,«,Û,·[]Bftf@fCf<-¼[]A•Û'¶[]ê[]Š,ð•ï[]X,μ,Ä•Û'¶,μ,½,ç,Æ,«,í[]A[=
¼'O,ð•t,¬,Ä•Û'¶...] fRf}f"fh,ðŽg,ç,Û,·[]B

fVf#[]fgf]fbfg

fc[]f<fo[]: 
fL[]f{[]fh: [Ctrl]+[S]

ff[f^fx][fX

[ftf@fCf<]||[-¼'0,đ•t,¯,Ä•Û'¶...] fRf}f“fh

∩ì<Æ't,ìff[f^fx][fX,Éftf@fCf<-¼,đ•t,¯,Ä•Û'¶,μ,Û,·∩B

∩ì<Æ't,ìff[f^fx][fX,ìftf@fCf<-¼∩A•Û'¶∩é∩Š,đ•ì∩X,μ,È,ç,Å•Û'¶,μ,½,ç
,Æ,«,í∩A∩ã∩',«•Û'¶] fRf}f“fh,đŽg,ç,Û,·∩B

ff[f^fx][fX

[ftf@fcf<]||[[]-1] fRf}f“fh

ff[f^fx][fX,Å,ì<Æ,ð|—1,μ,Û,·BfAfvfŠfP[fVf#f“ fEfBf“fhfE,ìfRf“fgf[]f<
f[]fj...[.É, ,é [•Â,¶,é] fRf}f“fh,ðŽg,Á,À<Æ,ð|—1,; ,é,±
,Æ,à,Å,«,Û,·Bff[f^fx][fX,É%oÁ,!,½•ïX“ _³,Û,³/₄•Û‘¶,³,é,Ä,ç,È,ç,Æ,«,í[]Afj“fO
—Š³/₄ ,í•Û‘¶,·,é,©,Ç,æ,©Šm”F,·,éf_fCfAf[]fO f{fbfNfX,ð•Ž!,μ,Û,·B

fVf#[]fgfjfbfg

f}fEfX: fAfvfŠfP[fVf#f“ fEfBf“fhfE,ìfRf“fgf[]f< f[]fj...
[] f{fbfNfX,ðf_fuf<fNfŠfbfN,μ,Û,·B



fL[f{[]fh: [Alt]+[F4]

ff [f^fx [fX
[fCfR [fh] | [A %o, i^E'u] fRf}f"fh

fCfR [fh, ð Å %o, i^E'u, É^Ú" ®, μ, Ü, · B

fVf† [fgf]bfg

fc [f<fo [:



ff [f^fx [fX
[fœfR [fh] | [Åœã, î^Ê'u] fRf}f"fh

fœfR [fh, ð Åœã, î^Ê'u, É^Ú" ®, μ, Ü, ·B

fVf# [fgf]bfg

fc [f<fo [:



ff [f^fx [fX

[fCfR [fh] | [Cÿ õ ð C] fRf} f"fh

fCfR [fh, ð Cÿ õ, , é ð C, ì Žw'è, ð, µ, Ü, · B [Cÿ õ ð C]
f_fCfAf [fOf {fbfNfX, Å Žw'è, µ, Ü, · B Cÿ õ ð C, ð Žw'è, ð, é, é, Æ fCfR [fh, ì Cã • û, É
Cÿ õ, µ, Ü, · B Cÿ õ ð, ð'±, -, é, É, í [fCfR [fh] | ['O • û Cÿ õ]
fRf} f"fh A [fCfR [fh] | [Cã • û Cÿ õ] fRf} f"fh, ð Žg, ç, Ü, · B

fVf# [fgf]fbfg

fc [f<fo [:



ff [f^fx [fX [ŒY [o [ðŒ] f_fCfAf [fOf {fbfNfX

ŒY [õ, µ, ½, ç • ¶ Žš, ðf_fCfAf [fOf {fbfNfX [ã 'i, ìRf "f {f {fbfNfX, É "ü— í, µ, Ü, · [B "ü—
í, µ, ½ • ¶ Žš, í [V, µ, ç [¶, É, Q, OŒ [Ü, Å < L % ° ~ , ³, ê, Ä, ç
, Ü, · [BfRf "f {f {fbfNfX, ìf {f ^f", ðfNfŠfbfN, ·, é, î ^ È ' OŒY [õ, É Žg—
p, µ, ½ • ¶ Žš, ð Žw 'è, ·, é, ±, Æ, a, Å, «, Ü, · [B

ŒY [õ, ì • û - @, ð • " • a ^ ê ' v [EŠ ® ' S ^ ê ' v, ì, Ç, ç, ©, ð Žw 'è, µ, Ü, · [B

ŒY [õ [€ - Ú, ð • a — P [E [f [f, [E [f [f @fCf < - ¼, ì, Ç, ê, ©, ð Žw 'è, µ, Ü, · [B

, n, jf {f ^f", ðfNfŠfbfN, ·, é, ÆŒã • ûŒY [õ, ð, µ, Ü, · [B

ff [f^fx [fX

[fCFR [fh] | ['O•uCEY [õ] fRf}f“fh

CE»Ý, ìfCFR [fh^Ê'u, ©, ç'O•u, ÉCEY [õ, μ, Ü, ·BCEY [õ, ì [õCE, í [fCFR [fh] | [CEY [õ [õCE] fRf}f“fh, ÅŽw'è, μ, Ü, ·B

fVf# [fgf]fbfg

fc [f<fo [:



ff [f^fx [fX

[fCFR [fh] | [CEã•ûCEÿ [õ] fRf}f“fh

CE»Ý, ìfCFR [fh^Ê'u, ©, çCEã•û, ÉCEÿ [õ, µ, Ü, · B CEÿ [õ, ì [õCE, í [fCFR [fh] |
[CEÿ [õ [õCE] fRf}f“fh, ĀŽw'è, µ, Ü, · B

fVf# [fgf]fbfg

fc [f<fo [:



ff [f^fx [fX

[fCfR [fh] | [í] œ] fRf}f“fh

œ»Ý, ìfCfR [fh^Ê'u, ìfCfR [fh, ðí] œ, μ, Ü, ·Bí] œ, ·, é, Æ-ß, ·, ±
, Æ, í, Å, «, Ù, ¹, ñB' ^ Ó, μ, Ä%^o, ³, çB

ff [f^fx [fX

[fCefR [fh] [[“à—e,ì’ù³] fRf}f“fh

CE»Ý,ìfCefR [fh^Ê’u,ìfCefR [fh,ð’ù³,μ,Ü,·B’ù³,Í[fCefR [fh“ü—Í]
f_fCfAfNf{fbfNfX,Å,“,±,È,ç,Ü,·B

fVf# [fgf]fbfg

fc [f<fo [:



ff [f^fx [fX

[fCefR [fh] | [V<K“o~^] fRf}f“fh

CE»Ý, ìfCefR [fh^Ê'u, ì'O, ÉV<KfCefR [fh, ð“o~^, μ, Ü, ·B V<K“o~^, Í[fCefR [fh“ü
—Í] f_fCfAfNf{fbfNfX, Å, ”, ±, È, ç, Ü, ·B

fVf# [fgf]fbfg

fc [f<fo [:



ff [f^fx] [fX [fCfR [fh "ü—í] f_fCfAf [fOf {fbfNfX

["à—e, ì'ù³], ìê#
Žw'è, μ, ½fCfR [fh, ì"à—e, a•\Ž, ³, ê, Ä, ç, Ü, ·B•K—v, È'ù³, ð, μ, Ä%º, ³, çB

[V<K"o~^], ìê#
•a—p [E]f [f, [E]ftf @fCf<, a<ó", É, È, Á, Ä, ç, Ü, ·BŠe [€—Ú, ì"ü—í, ð, μ, Ä%º, ³, çB
"ü—í [Eã, n, jf {f^f", ðfNfŠfbfN, ·, é, Æ [Ä, Ñf_fCfAf [fOf {fbfNfX, aE», ê, Ü, ·B, ±
, ê, Í~A'±"ü—í, ð, μ, â, ·, ·, é, ½, ß, Å, ·B%º½, à"ü—í, μ, Ä, ç
, È, ç [ó'Ô, Å, n, jf {f^f", ðfNfŠfbfN, ·, ê, Í~A'±"ü—
Í, Í'†Ž~ , ³, ê, Ü, ·B, Ü, ½Cancel f {f^f", ðfNfŠfbfN, μ, Ä, à~A'±"ü—í, Í'†Ž~ , ³, ê, Ü, ·B



f {f^f", ðfNfŠfbfN, ·, ê, Íftf @fCf<-¼, ìŽæ"¾
f_fCfAf [fOf {fbfNfX, É, æ, èftf @fCf<, ðŠÈ'P, ÉŽw'è, ·, é, ±, Æ, a, Å, «, Ü, ·B

ff [f^fx [fX
[fĈfR [fh] [["'—] fRf}f“fh

Žw'è,μ,½fĈfR [fh,]ftf@fCf<,đf“fO—Š'¾,É“—,μ,Ü,·B

fVf‡ [fgf]fbfg

fc [f<fo [:



ff [f^fx [fX

[%%%'t] [%%%'t]fRf}f"fh

Žw'è,μ,½fCFR [fh,ìftf@fCf<,đ%%%'t,μ,Ü,·B

%%%'t,đ"r†,ÅŽ~,β,é,É,í[%%%'t] ['âŽ~]fRf}f"fh,đŽg,φ,Ü,·B

fVf# [fgf]fbfg

fc [f<fo [:



ff [f^fx [fX
[%o%o't] [l'âž~]fRf}f“fh

%o%o't,đ'âž~,μ,Ü,·B

fVf‡ [fgf]fbfg

fc [f<fo [:



ff[]f^fx[]fX fc[]f<fo[]

fc[]f<fo[][,í[]AfAvfšfP[]fVf#f“ fEfBf“fhfE[]ã•”,Å[]Af[]ff...[] fo[][,ì,.,®%º,É•\
Ž!,³,ê,Ü,·[]B,±,±,ÉŠÜ,Ü,ê,éfc[]f<,ðf}fEfX,ÅfNfšfbfN,μ,Ä'€[]ì,μ,Ü,·[]B

fc[]f<fo[] <@”\



ff[]f^fx[]fX,ð[]V<K,É[]ì[]¬,μ,Ü,·[]B



Šù'¶,ìff[]f^fx[]fX,ðš],«,Ü,·[]Bff“fo—š'¾,í [š],] f_fCfAf[]fo f{fbfNfX,ð•\
Ž!,μ,Ü,·,ì,Å[]Aš],«,½,çftf@fCf<,ð'l'ð,μ,Ü,·[]B



[]ì<Æ't,ìff[]f^fx[]fX,ð[]ã[]',«,μ,Ä•Ú'¶,μ,Ü,·[]B,Ü,¾ff[]f^fx[]fX,É-¼'O,ð•t,¬,Ä,ç
,È,ç,Æ,«,í[]A[-¼'O,ð•t,¬,Ä•Ú'¶] f_fCfAf[]fo f{fbfNfX,ª•\Ž!,³,ê,Ü,·[]B



fCfR[]fh,ð[]Å[]%º,ì^Ê'u,É^Ú“® ,μ,Ü,·[]B



fCfR[]fh,ð[]Å[]Æä,ì^Ê'u,É^Ú“® ,μ,Ü,·[]B



Œÿ[]ð,.,é,½,ß,ì[]ðŒ[] ,ðžw'è,μ,Ü,·[]B



Œ»[]Ý,ìfCfR[]fh^Ê'u,©,ç'O•û,ÉŒÿ[]ð,μ,Ü,·[]B



Œ»[]Ý,ìfCfR[]fh^Ê'u,©,çŒä•û,ÉŒÿ[]ð,μ,Ü,·[]B



fCfR[]fh,ì'ù[]³,ð,μ,Ü,·[]B



fCfR[]fh,ì[]V<K“o~^ ,ð,μ,Ü,·[]B



žw'è,μ,½fCfR[]fh,ìftf@fCf<,ðf“fo—š'¾,É”“—,μ,Ü,·[]B



Œ»[]Ý,μ,Ä,μ,Ä,ç,é<Èff[]f^ftf@fCf<,ì%º%º't,ð,μ,Ü,·[]B



%º%º't,ð'âž~,μ,Ü,·[]B

ft [fU ["o~^

fj"fo—Š'¾,đEp'±,μ,ÄŽg,κ,É,Í'—<à,μ,Ä,ç,½,¾,ç,Äft [fU ["o~^,.,é,±,Æ,ª•K—
v,Ä,·B'—<à•û-@,ÍREADME.DOCftf@fCf<,đ"Ç,ñ,Ä
%oº,³,ç [Bft [fU ["o~^,³,ê,½•û,É,ÍpfXf [fh,đ~A—,ç
,½,μ,Û,·BpfXf [fh,íA [fwf<fv] [fpfXf [fh,ìÝ'è}f"fh,ÅÝ'è,μ,Û,·B

fpfXf [fh,í'¼I,É<³,!,é,±,Æ,ì,È,ç,æ,κ,Šè,ç,μ,Û,·B

[fwf<fv]|[fpfXf|[fh,ìÝ'è]fRf}f“fh

[fpfXf|[fh“o~^]f_fCfAfOf{fbfNfX,ÅfpfXf|[fh,ðÝ'è,μ,Û,·B

[f_p_fXf][fh“o~^]f_fCfAfOf{fbfNfX

f_p_fXf[fh,đ“o~^,μ,Ü,·B
,n,jf{f^f“,đfNfŠfbfN,μ,Ü,·Bf_p_fXf[fh,ª³,μ,¯,ê,îfsf“f|f“,Æ%oo¹,ª,μ,Ü,·B
f_p_fXf[fh“o~^f_fCfAfOf{fbfNfX,đ“Ä“xŠj,ç,Ä,àf_p_fXf[fh,í•\Ž!,³,ê,Ä,ç
,Ü,¹,ñB,±,ê,îf_p_fXf[fh,ì““i-hŽ~,ì,½,ß,Å,·Bf_p_fXf[fh,ª³,μ,·Y'è,³,ê,Ä,ç
,ê,îuf_p_fXf[fh,í,·,Å,ÉY'è,³,ê,Ä,ç,Ü,·Bv,Æ•\Ž!,ª,³,ê,Ä,ç,Ü,·B

[•ÒW][[.,x,Ä,ð'í'ð]fRf}f“fh

@fAfNfefBfu,É,È,Á,Ä,ç,éfEfBf“fh[[.,x,Ä,ìff[[f^,ð'í'ð,μ,Û,·B
%%'tŠyŠí,əfCf[[fW,Æ^á,Á,½,ì,Å'S•",ìff[[f^,ì%%'tŠyŠí,ð•ïX,μ,½,ç
,Æ,«,È,ÇA,.,x,Ä,ð'í'ð,μ,Ä,©,ç%%'tŠyŠí,ð•ïX,.,ê,îÆø—|“l,È'€ì,É,È,è,Û,·B

[•ÒW]|[fgf%of“fXf|[fY]fRf}f“fh

□@‘l’đ,μ,½”í^í,ì%o¹•,,,ì%o¹’ö,đfIfNf^□[fu’P^Ê,Ü,½,í”¼%o¹’P^Ê,Å^Ú“®,,é,±,Æ,ª□o—^,Ü,·□B

[fgf%of“fXf|[fY] f_fCfAf□fO f{fbfNfX,Å^Ú“®,,é—Ê,đŽw’è,μ,Ü,·□B

fgf%of“fXf|[fYfRf}f“fh,í□AŽŸ,ì,æ,κ,È□ê□‡,É—LÆø,Å,·□B

□>Ž©•ª,ì□º^æ,É<Èff□[f^,đ□‡,í,¹,é

□@fJf%oflfP,ì“S□l,Å%oì,ì—û□K,đ,·,é□ê□‡□A%o%o’t,ªŽ©•ª,ì□º^æ,É□‡,Á,Ä,È,ϕ,±

,Æ,ª, ,è,Ü,·□BfIfNf^□[fu’P^Ê,Å%o%o’t,đ’²□® ,Å,« ,Ü,·,ª□A-^“x’²□® ,·,é,ì,ª-Ê“|,,³,ϕ

,æ,κ,È□ê□‡□AfIfŠfWfif<,ì<Èff□[f^,đŽ©•ª,ì□º^æ,É□‡,í,¹,Ä,“ ,Æ,·,® ,É—

û□K,ìŠJŽn,ª,Å,« ,Ü,·□B

□>fAfÆf“fW

□@“~ ,¶lf□f□fffB□[,ÅŠyŠí,đ•ì,|,ÄfAfÆf“fW,·,é□ê□‡□A“~ ,¶%o¹ŠK,Å%o

%o’t,·,é,æ,è,PfIfNf^□[fu%oº,º,Å%o%o’t,³,¹,é,ÆÆø%oÊ“l,È□ê□‡,ª, ,è,Ü,·□B,±

,ì,æ,κ,È,Æ,«□AfGf%of“fXf|[fY,í-đ,É—§,¿,Ü,·□B

Octave Transpose



@fNf^ [fu'P^Ê,Å^Ú"®,·,é,É,í[fNf^ [fu,ÅŽw'è,·,é] f
 %fWfif{f^f",đ'í'đ,μ,Û,·B'í'đ,μ,½"í^í,Å^Ú"®,Å,«,é"í^í,ªmax,min,Å·\Ž|,³,ê,Ä,ç
 ,Û,·B^Ú"®,μ,½,çfNf^ [fu,đ"ü—í,μ,Û,·B-(f}fCfifX)<L□†,Å"ü—í,·,é,Æ%¹,ì'á,ç
 ,Û,ª,É^Ú"®,μ,Û,·B
 @ "¼%¹'P^Ê,Å^Ú"®,·,é,É,í["¼%¹,ÅŽw'è,·,é] f
 %fWfif{f^f",đ'í'đ,μ,Û,·B'í'đ,μ,½"í^í,Å^Ú"®,Å,«,é"í^í,ªmax,min,Å·\Ž|,³,ê,Ä,ç
 ,Û,·B"¼%¹,Å^Ú"®,μ,½,ç—Ê,đ"ü—í,μ,Û,·B-(f}fCfifX)<L□†,Å"ü—í,·,é,Æ
 %¹,ì'á,ç,Û,ª,É^Ú"®,μ,Û,·B

fNf^ [fu,Æ"¼%¹,ìŠÖÆW
 @□@,PfNf^ [fu□@□□@,P,Q"¼%¹

[•òW][[%¹•„“<x•„•İŠ•]fRf}f“fh

@‘đ,μ,½”í^í,ì%¹•„,đ<x•„,É•İŠ•,μ,Ü,•B
fAfÆf“fW,;é,Æ,«,Éf[]ffB[]f%ofCf“,đfRfs[],μ,ÄA, ,é”í^í,đ<x•„,É,μ,½,¢
,Æ,«,È,Ç,É—LÆø,Å,•B

[•òW][[~A•,,]fRf}f“fh

‘l’ð,μ,½”í^í,ð~A•,,,É,μ,½,è[A~A•,,,ð%øð[œ,μ,Û,·□B
‘l’ð,μ,½”í^í,ª,È,ç,ÆfRf}f“fh,í-³œø,Å,·□B

[~A•,,] fRf}f“fh,É,í^È%øø,ìTfufRf}f“fh,ª, ,è,Û,·□B
[ŽO~A•,,] ‘l’ð,μ,½”í^í,ðŽO~A•,,,É,μ,Û,·□B
[Žl~A•,,] ‘l’ð,μ,½”í^í,ðŽl~A•,,,É,μ,Û,·□B
[œÛ~A•,,] ‘l’ð,μ,½”í^í,ðœÛ~A•,,,É,μ,Û,·□B
[~Z~A•,,] ‘l’ð,μ,½”í^í,ð~Z~A•,,,É,μ,Û,·□B
[Žμ~A•,,] ‘l’ð,μ,½”í^í,ðŽμ•,,,É,μ,Û,·□B
[fNfŠfA] ‘l’ð,μ,½”í^í,ì~A•,,,ðfNfŠfA,μ,Û,·□B

[•òw]|[f^fC]fRf}f“fh

‘l’ð,μ,½”í^í,ðf^fC,É,μ,½,è□Af^fC,ð%ð□œ,μ,Ü,·□B
‘l’ð,μ,½”í^í,ª,È,ç,ÆfRf}f“fh,í⁻³∅,Å,·□B

[f^fC] fRf}f“fh,É,í^È%º,ìfTfufRf}f“fh,ª, ,è,Ü,·□B
[fZfbfg] ‘l’ð,μ,½”í^í,ðf^fC,Å,Â,È,¬,Ü,·□B
[fNfŠfA] ‘l’ð,μ,½”í^í,ìf^fC,ðfNfŠfA,μ,Ü,·□B

[~A•,,]□|[ŽO~A•,,]fRf}f“fh

Žw'è,μ,½"í^í,đŽO~A•,,É,μ,Ü,·□B

Žw'è,μ,½"í^í,É□c□ü,^a, ,é,ÆfRf}f“fh,í-³CEø,Å,·□B

ŽO~A•,,đ%ođ□œ,·,é,É,í[•Ò□W][~A•,,][fNfŠfA],Å□s,ç,Ü,·□B

[~A•,,]□|[ŽI~A•,,]fRf}f“fh

Žw'è,μ,½"í^í,đŽI~A•,,É,μ,Ü,·□B

Žw'è,μ,½"í^í,É□c□ü,^a, ,é,ÆfRf}f“fh,í-³CEø,Å,·□B

ŽI~A•,,đ%ođ□œ,·,é,É,í[•Ò□W][~A•,,][fNfŠfA],Å□s,ç,Ü,·□B

[~A•,,]□|[CEÜ~A•,,]fRf}f“fh

Žw'è,μ,½"í^í,đCEÜ~A•,,É,μ,Ü,·□B

Žw'è,μ,½"í^í,É□c□ü,ª, ,é,ÆfRf}f“fh,í-³CEø,Å,·□B

CEÜ~A•,,đ%øđ□œ,·,é,É,í[•Ò□W][~A•,,][fNfŠfA],Å□s,ç,Ü,·□B

[~A•,,]□[~Z~A•,,]fRf}f“fh

Žw'è,μ,½"í^í,đ~Z~A•,,É,μ,Ü,·□B

Žw'è,μ,½"í^í,É□c□ü,^a, ,é,ÆfRf}f“fh,í-³Œø,Å,·□B

~Z~A•,,đ%øđ□œ,·,é,É,í[•Ò□W][~A•,,][fNfŠfA],Å□s,ç,Ü,·□B

[~A•,,]□|[Žμ~A•,,]fRf}f“fh

Žw'è,μ,½"í^í,đŽμ~A•,,É,μ,Ü,·□B

Žw'è,μ,½"í^í,É□c□ü,^a, ,é,ÆfRf}f“fh,í-³CEø,Å,·□B

Žμ~A•,,đ%øđ□œ,·,é,É,í[•Ò□W][~A•,,][fNfŠfA],Å□s,ç,Ü,·□B

[~A•,,]|[fNfŠfA]fRf}f“fh

Žw'è,μ,½"í^í,ì~A•,,đ%ođ|œ,μ,Û,·|B
Žw'è,μ,½,μ,½"í^í,É|š-ñ,í, ,è,Û,¹,ñ|B

[f^fC]|[fZfbfg]fRf}f“fh

Žw'è,μ,½"íí,đf^fC,É,μ,Ü,·□B
~a%o¹,àf^fC,Å,Â,È,°,Ü,·□B“~,¶~a%o¹“~Žm,ì,Ýf^fC,Å,Â,È,°,Ü,·□B□i—
á,|,î,b,Æ,b,í,Â,È,°,Ü,·□B,μ,©,μ□A,b,Æ,b7,í^fC,Å,Â,È,°,Ü,¹ñ□B□j□@
“~,¶~a%o¹,Å,à,P,Â,ì%o¹,¾,~f^fC,Å,Â,È,®,±,Æ,í,Å,«,Ü,¹ñ□B
f^fC,đ%ođ□œ,·,é,É,í[•Ò□W][f^fC][fNfŠfA],Å□s,ç,Ü,·□B



[f^fC]|[fNfŠfA]fRf}f“fh

Žw'è,μ,½"íí,ìf^fC,đ%ođ[œ,μ,Ü,·[B

[Œø%oÊ] f[]jff...[][,l}Rf}f“fh

Žg—p%o¹Œ¹,É,æ,Á,Ä,Íf,fWf...fŒ[][fVf#f“fz[][f<fh[]AfŠfo[][fu[]AfR[][f%ofX,È,Ç,Í-
³Œø,É,È,è,Ü,·[]B

[Œø%oÊ] f[]jff...[][,É,í^È%o^o,ì,æ,α,ÈfRf}f“fh,^a, ,è,Ü,·[]B



[²[]t][]@[]@'²[]t,ð[]Ý'è,μ,Ü,·[]B



[“[]Žq][]@[]@”[]Žq,ð[]Ý'è,μ,Ü,·[]B



[%o%o'tŠyŠí][]@[]@%o%o'tŠyŠí,ð[]Ý'è,μ,Ü,·[]B



[‘-“x][]@[]@%o%o't-“x,ð[]Ý'è,μ,Ü,·[]B



[%o¹-Ê][]@[]@%o¹-Ê,ð[]Ý'è,μ,Ü,·[]B



[fQ[][fgf^fCf€][]@[]@fQ[][fgf^fCf€,ð[]Ý'è,μ,Ü,·[]B



[fpf“f|fbfg][]@[]@fpf“f|fbfg,ð[]Ý'è,μ,Ü,·[]B



[f,fWf...fŒ[][fVf#f“][]@[]@f,fWf...fŒ[][fVf#f“,ð[]Ý'è,μ,Ü,·[]B



[fz[][f<fh][]@[]@fz[][f<fh,ð[]Ý'è,μ,Ü,·[]B



[fŠfo[][fu][]@[]@fŠfo[][fu,ð[]Ý'è,μ,Ü,·[]B



[fR[][f%ofX][]@[]@fR[][f%ofX,ð[]Ý'è,μ,Ü,·[]B

[Œø%oÊ] [l'²t]fRf}f“fh

<Èff [f^, ì²t, ðŽw'è, μ, Ü, ·B [l'²t, ìY'è] f_fCfAf_fO
f{fbfNfX, Å<Èff [f^, ì²t, ðŽw'è, μ, Ü, ·B
'²t, í%¹, ì·\Ž!, É, ì, ÝŠÖŒW, μ, Ü, ·B
, Ç, ì²t, ðŽg, Á, ½, ç—Ç, ç, ©, í, ©, ç, È, ç·û, ífn'·², ì²t, É, μ, Ä
%oº, ³, çB'²t, ìŽw'è, º·s“KØ, Å, , Á, ½, Æ, μ, Ä, àAŽÀÛ, í·ï%o»<Lt ifVff [fv, âftj
%ofbfgj, º¹², ·t, , ¾, -, Å%¹, » , ì, à, ì, í, ì, í, è, Ü, ¹, ñB

[²t, ìÝ'è] f_fCfAf_fN f{fbfNfX

'²t, ðŽw'è, μOKf{f^f", ðfNfŠfbfN, μ, Ü, ·B·^·\, í'í'ð, μ, ½'²t, Å·\Ž|, ³, ê, Ü, ·B
, Ç, ì'²t, ^a—Ç, ç, ì, ©, í, ©, ç, È, ç·û, í, Æ, è, , , , fn'·'², ì'²t, ðŽw'è, μ, Ä%^o, ³, çB

[Œø%oÊ]||["Źq]fRf}f“fh

Ⓜ@<ÈffⓂ[f^,ì"Źq,đŽw'è,μ,Û,·ⓂB["Źq,ìŸ'è] f_fCfAfⓂfO

f{fbfNfX,Å<ÈffⓂ[f^,ì"Źq,đŽw'è,μ,Û,·ⓂB

Ⓜ@"Źq,í•\Ž!,ì,ÝŠÖŒW,μ,Û,·ⓂB,PⓂ¬Ⓜβ,ì'†,ì%o¹•,,,ì",,ª"Źq,Æ^á,Á,Ä,ç,Ä,àfGf

%oⓂ["™,í,Å,Û,¹,ñⓂBŽ©—R,É"ü—í,μ,Ä, ,Æ,Å'ìⓂÛ,đⓂ®,!,é,½,β,É"Źq,Æ

%o¹•,,,ì",,đ'²Ⓜ®,μ,Ä%o^o,³,çⓂBⓂi'²Ⓜ®,μ,È,,Ä,à%o^{1/2},ç•s"sⓂ‡,í, ,è,Û,¹,ñⓂBⓂj

[“Žq,ìÝ’è] f_fCfAf_fN f{fbfNfX

@“Žq,đŽw’è,μOKf{f^f“,đfNfŠfbfN,μ,Û,·B•^•\,É’l’đ,μ,½”Žq,ª•\
Žl,³,ê,Û,·B”Žq,í’æ,P_s,Å’²†,ì%o;É•\Žl,³,ê,é,¾,¯,ì^Ó-i,μ,©, ,è,Û,¹,ñB”i”Žq
,É”½,·,é“ü—í,É’î,·,éCEx”™,í, ,è,Û,¹,ñB”jŽÀÛ,Ç,ì”Žq,đ’l,ñ,Å,à
%½,à•s“s†,í¶,¶,Û,¹,ñB“K“- ,Å, ©,Û,ç,Û,¹,ñB
@“Žq,đ,Â,¯,é,ì,ª,ç,â,È•û,íA[ftfŠ[],đŽw’è,μ,Ä%º,³,çB”Žq,í•\
Žl,³,ê,Û,¹,ñB

[Œø%Œ] [%%'tŠyŠí]fRf}f"fh

<Èff[f^,ì%%'tŠyŠí,ðŽw'è,μ,Û,·B

fAfNfefBfu,É,È,Á,Ä,ç

,éfEfBf"fh[l,ìftf@fCf<Œ`Ž®,É,æ,Á,ÄŸ'è,ð,·,éf_fCfAfŸO,ª^Û,È,è,Û,·B



ftf@fCf<Œ`Ž®,ªfŠfyf€

•@%ò,ì"SŸl,Å%¹Ÿ"ü—í,·,é,Æ,«,ìŠyŠíff[f^,ªŸ'è,μ,½ŠyŠí,É•ïX,³,è,Û,·B

Žw'è,μ,½"í^í,ª,è,îAŽw'è,μ,½"í^í,ì%%'tŠyŠí,ª•ïX,³,è,Û,·BCE³,ì%

%%'tŠyŠí,Æ^Û,È,Á,Ä,ç,éê±A•^·\,ì·Žl,ª•ï,í,è,Û,·B

[fŠfyf€ŠyŠí,ì'l'ð] f_fCfAfŸO f{fbfNfX,Å<Èff[f^,ìŠyŠí,ðŽw'è,μ,Û,·B



ftf@fCf<Œ`Ž®,ªfŸŸffB[

%¹•,fpfŒfbfg,ðŽg,Á,Äf}fEfX,Å%¹•,„,ð"ü—í,·,é,Æ,«,ì%%'tŠyŠí,ªŸ'è,μ,½%%

%%'tŠyŠí,É•ïX,³,è,Û,·B

•@%ò,ì"SŸl,Å%¹Ÿ"ü—í,·,é,Æ,«,ì%%'tŠyŠí,ªŸ'è,μ,½%%

%%'tŠyŠí,É•ïX,³,è,Û,·B

Žw'è,μ,½"í^í,ª,è,îAŽw'è,μ,½"í^í,ì%%'tŠyŠí,ª•ïX,³,è,Û,·B

[fŸŸffB[ŠyŠí,ì'l'ð] f_fCfAfŸO f{fbfNfX,Å<Èff[f^,ìŠyŠí,ðŽw'è,μ,Û,·B

[fŠfYf€ŠyŠí,ì'í'ð] f_fCfAf□fN f{fbfNfX

Šó-],)ŠyŠí,ð•i□''í'ð,·,é,±,Æ,ª,Å,«,Ü,·□BŠyŠí,ð'í'ð,μOKf{f^f“,ðfNfŠfbfN,μ,Ü,·□B
ŠyŠí,ì%o¹□F,ª,í,©,ç,È,ç,Æ,«,í%o
%o'tf{f^f“,ðfNfŠfbfN,μ,Ü,·□B'í'ð,μ,½ŠyŠí,Åf^f^f^f^f^,Æ%o%o't,μ,Ä,,è,Ü,·□B



: %o%o'tf{f^f“

[f f f f B [ŠyŠí,ì'í'ð] f_fCfAf fN f{fbfNfX

'í'ð,Å,«,éŠyŠí,í,P,Â,Â,·BCE»Ý'í'ð,μ,Ä,ç,éŠyŠí,í'í'ðŠyŠí,ì,Æ,±,ë,É•Ž!,³,ê,Ä,ç,Ü,·BŠyŠí fOf<[fv,ð•ì,!,é,ÆŠyŠí,ì•Ž!,à•ì,í,è,Ü,·B

ŠyŠí,ì'í'ð,ì•û-@,íŠó-],ìŠyŠí,ðfNfŠfbfN,μ,Ä

OKf{f^f“,ðfNfŠfbfN,μ,Ü,·B,Ü,¹/₂,íŠó-],ìŠyŠí,ðf_fuf<fNfŠfbfN,μ,Ü,·B

ŠyŠí,ì%¹F,^a,í,©,ç,È,ç,Æ,«,í%_o

%'tf{f^f“,ðfNfŠfbfN,μ,Ü,·B'í'ð,μ,¹/₂ŠyŠí,ÅfhfÇf~ftf@f\%ofVfh,Æ%_o't,μ,Ä,-,è,Ü,·B



: %'tf{f^f“

[Œø%oÊ] [l'¬“x]fRf}f“fh

<Èff[f^,l'¬“x,đŽw'è,μ,Û,·B'¬“x,ìŸ'è,đ•İX,·,é,±,Æ,Å,¾,ñ,¾,ñ',·,·,é,±,Æ,â,¾,ñ,¾,ñ'x,·,·,é,±,Æ,ª,Å,«,Û,·B

Žw'è,μ,½"í'í,ª, ,é,©"Û,©,ÅŸ'è,đ,·,éf_fCfAfO f{fbfNfX,ª^Û,È,è,Û,·B



Žw'è,μ,½"í'í,ª, ,é

%o¹•„fpfŒfbfg,đŽg,Á,Äf}fEfX,Å%o¹•„,đ“ü—

í,·,é,Æ,«,l'¬“x,ªŸ'è,μ,½'¬“x,É•İX,³,ê,Û,·B

•@%oì,l'SŒ,Å%o¹Ÿ“ü—í,·,é,Æ,«,l'¬“x,ªŸ'è,μ,½'¬“x,É,È,è,Û,·B

Žw'è,μ,½"í'í,l'¬“x,ªŸ'è,μ,½'¬“x,É•İX,³,ê,Û,·B

[Œø%oÊ•òW] f_fCfAfO f{fbfNfX,Å<Èff[f^,l'¬“x,đŽw'è,μ,Û,·B



Žw'è,μ,½"í'í,ª,È,ç

%o¹•„fpfŒfbfg,đŽg,Á,Äf}fEfX,Å%o¹•„,đ“ü—

í,·,é,Æ,«,l'¬“x,ªŸ'è,μ,½'¬“x,É•İX,³,ê,Û,·B

•@%oì,l'SŒ,Å%o¹Ÿ“ü—í,·,é,Æ,«,l'¬“x,ªŸ'è,μ,½'¬“x,É,È,è,Û,·B

[l'¬“x] f_fCfAfO f{fbfNfX,Å<Èff[f^,l'¬“x,đŽw'è,μ,Û,·B

['¬“x] f_fCfAf□fO f{fbfNfX

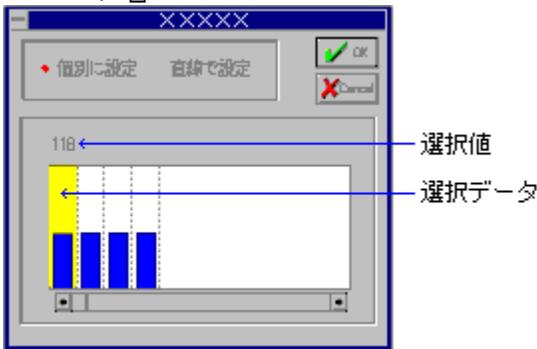
Žw'è,μ,½"í^í,ª,È,ç,Æ,«,ì¬“x,đ□Ý'è,·,éf_fCfAf□fOf{fbfNfX,Å,·□B□Ý'è'l,đ□¬,³,-
,·,é,Æ'¬“x,í'x,,È,è,Ü,·□B□Ý'è'l,đ'å,«,,·,é,Æ'¬“x,í'¬,,È,è,Ü,·□B

[Œø%oÊ•ÔW] f_fCfAf□fO f{fbfNfX

‘¬“x□A%o¹—Ê□AfQ□[fgf^fCf€□Afpf“f]fbfg□Af,fWf...
 fŒ□[fVf#f“□AfŠfo□[fu□AfR□[f%ofX,ÅŒø%oÊ,ð•Ô□W,·,é<α’ÊŽd—
 l,l_fCfAf□fOf{fbfNfX,Å,·□B
 f_fCfAf□fOf{fbfNfX,lf^fCf#g<,ª□u,w,w,w,w□v,Æ,È,Á,Ä,ç,Û,·,ª□A—
 á,l,l’¬“x,È,ç□ufyf“fO—Š³⁄⁴□|‘¬“x□v,Æ“Ç,Ý,©,!,Ä%oo,³,ç□B
 [Œø%oÊ•ÔW]f_fCfAf□fOf{fbfNfX,lžg,ç•û,l,Q’Ê,è,è,Û,·□Bžg,ç•û,l□Ø,è’Ö,l,l_f
 %ofWfif{f^f“,Å,“,±,ç,Û,·□B



ŒÂ•Ê,É□Ý’è



ŒÂ•Ê,É□Ý’è,l’l’ð,μ,½”l^l,l%o¹,l,ç,,Å,©,ð•l□X,·,é□ê□#,É•Ö—~,Å,·□B
 %o¹—Ê,ð•l,l,Ä,Ý,½,ç,±,Æ,ð—á,Æ,μ,Û,·□B
 ÀÝ ÀÝ ÀÝ ÀÝ ÀÝ ÀÝ□@,ð□@ÀÝ ÀÝ ÀÝ ÀÝ ÀÝ ÀÝ
 ,Æ,ç,α,Ó,α,É”□,ð,Å,¯,½,ç,Æ,«ŽÝ,l,æ,α,É’€□l,μ,Û,·□B
 ”□,ð,Å,¯,½,ç%o¹•,,,l—_fOf%oft,ðfNfŠfbfN,μ,Û,·□B□ižü^l,ª%o©□F,É,È,è,Û,·□j
 fOf%oft,l,Æ,±,è,ðfhf%ofbfO,μ,ÅŠó-],l□”l,É,μ,Û,·□B
 ,±,l’€□l,ð•K—v,È,¾,¯ŒJ,è•Ô,μ,Û,·□B
 —_fOf%oft,l•••\l•žl,Æ’l%ož,³,¹,é,½,β,É%o¹•,,,□E<x•,,,□E□c□ü,É’l%ož,μ,Ä,ç
 ,Û,·□B,æ,Á,Ä<x•,,,É□Ý’è,μ,Ä,à-³Œø,Å,è,é,Æ,ç,α□ó<μ,l,è,Û,·□B



¾□ü,Å□Ý’è



'¼ü,ÅÝ'è,Í'ð,µ,½"í^í,ð,·,×,Ä"¯,¶,É,·,éA,¾,ñ,¾,ñ¬,³,·,·,éA,¾,ñ,¾,ñ'å,«,-
,·,é,Æ,ç,Á,½•ïX,ð,·,éê¶,É•Ö—~ ,Å,·B
Žw'è,µ,½"í^í,ìæ"ª,ìff[f^,ðæ"ª'lfzfbfgf{f^f",ðfhf
%ofbfO,µ,ÄĒ'è,µ,Û,·BŽŸ,ÉŽw'è,µ,½"í^í,ì|—¹,ìff[f^,ð|—¹'lfzfbfgf{f^f",ðfhf
%ofbfO,µ,ÄĒ'è,µ,Û,·B,±,ìÝ'è,ÍtfF[fhfCf" AfTF[fhfAfEfg,È,Ç,É•Ö—~ ,Å,·B

[Æø%oÊ] [[%o¹—Ê] fRf} f“fh

<Èff [f^, ì%o¹—Ê, ðŽw'è, μ, Ü, ·□B%o¹—Ê, ì□Y'è, ð•ï□X, ·, é, ±, Æ, Å, ¾, ñ, ¾, ñ'â, «, ·, ·, é, ±, Æ, â, ¾, ñ, ¾, ñ□¬, ³, ·, ·, é, ±, Æ, ð, Å, «, Ü, ·□B

Žw'è, μ, ½"í"í, ð, ·, é, ©"Û, ©, Å□Y'è, ð, ·, é, f_c fA f□ fO f{ f b fN fX, ð^ Û, È, è, Ü, ·□B



Žw'è, μ, ½"í"í, ð, ·, é

%o¹•, f p f Æ f b f g, ðŽg, Á, Ä f} f E f X, Å%o¹•, „, ð“ü—í, ·, é, Æ, «, ì%o¹—Ê, ð□Y'è, μ, ½%o¹—Ê, É, É•ï□X, ³, ê, Ü, ·□B

•@%oì, ì“S□l, Å%o¹□o“ü—í, ·, é, Æ, «, ì%o¹—Ê, ð□Y'è, μ, ½%o¹—Ê, É, È, è, Ü, ·□B

Žw'è, μ, ½"í"í, ì%o¹—Ê, ð□Y'è, μ, ½%o¹—Ê, É•ï□X, ³, ê, Ü, ·□B

[Æø%oÊ•ò□W] f_c fA f□ fO f{ f b fN fX, Å<Èff [f^, ì%o¹—Ê, ðŽw'è, μ, Ü, ·□B



Žw'è, μ, ½"í"í, ð, È, ç

%o¹•, f p f Æ f b f g, ðŽg, Á, Ä f} f E f X, Å%o¹•, „, ð“ü—í, ·, é, Æ, «, ì%o¹—Ê, ð□Y'è, μ, ½%o¹—Ê, É, É•ï□X, ³, ê, Ü, ·□B

•@%oì, ì“S□l, Å%o¹□o“ü—í, ·, é, Æ, «, ì%o¹—Ê, ð□Y'è, μ, ½%o¹—Ê, É, È, è, Ü, ·□B

[%o¹—Ê] f_c fA f□ fO f{ f b fN fX, Å<Èff [f^, ì%o¹—Ê, ðŽw'è, μ, Ü, ·□B

[‰¹—Ê] f_fCfAf□fO f{fbfNfX

Žw'è,μ,½"íí,^a,È,ç,Æ,«,ì‰¹—Ê,đ□Ý'è,·,éf_fCfAf□fOf{fbfNfX,Å,·□B□Ý'è'l,đ□¬,³,
,·,é,Æ‰¹—Ê,^a□¬,³,,È,è,Ü,·□B□Ý'è'l,đ'â,«,,·,é,Æ‰¹—Ê,^a'â,«,,È,è,Ü,·□B

[Œø%oÊ]||[fQ|[fgf^fCf€]fRf}f“fh

<Èff|[f^,lfQ|[fgf^fCf€,đŽw'è,μ,Û,·BfQ|[fgf^fCf€,l|Y'è,đ•i|X,·,é,±,Æ,ÅfXf
%o|[,âfXf^fbfj|[fg,|Œø%oÊ,đŽw'è,μ,Û,·B
Žw'è,μ,½"í"í,ª, ,é,©"Û,©,Å|Y'è,đ,·,éf_fCfAf|fO_f{fbfNfX,ª^Û,È,è,Û,·B



Žw'è,μ,½"í"í,ª, ,é

%o¹•„f|f|Œf|b|f|g,đŽg,Á,Äf}fE|fX,Å%o¹•„,đ"ü—í,·,é,Æ,«,lfQ|[fgf^fCf€

,ª|Y'è,μ,½fQ|[fgf^fCf€,É•i|X,³,è,Û,·B
•@%oì,l"“S|l,Å%o¹|ª"ü—í,·,é,Æ,«,lfQ|[fgf^fCf€,ª|Y'è,μ,½fQ|[fgf^fCf€

,É,È,è,Û,·B
Žw'è,μ,½"í"í,lfQ|[fgf^fCf€,ª|Y'è,μ,½fQ|[fgf^fCf€,É•i|X,³,è,Û,·B

[Œø%oÊ•ò|W] f_fCfAf|fO_f{fbfNfX,Å<Èff|[f^,lfQ|[fgf^fCf€,đŽw'è,μ,Û,·B



Žw'è,μ,½"í"í,ª,È,¢

%o¹•„f|f|Œf|b|f|g,đŽg,Á,Äf}fE|fX,Å%o¹•„,đ"ü—í,·,é,Æ,«,lfQ|[fgf^fCf€

,ª|Y'è,μ,½fQ|[fgf^fCf€,É•i|X,³,è,Û,·B
•@%oì,l"“S|l,Å%o¹|ª"ü—í,·,é,Æ,«,lfQ|[fgf^fCf€,ª|Y'è,μ,½fQ|[fgf^fCf€

,É,È,è,Û,·B
[fQ|[fgf^fCf€] f_fCfAf|fO_f{fbfNfX,Å<Èff|[f^,lfQ|[fgf^fCf€,đŽw'è,μ,Û,·B

[fQ [fgf^fCf€] f_fCfAf□fO f{fbfNfX

Žw'è,μ,½"íí,ª,È,ç,Æ,«,ìfQ [fgf^fCf€
,đ□Ý'è,·,éf_fCfAf□fOf{fbfNfX,Å,·□B□Ý'è'l,đ□¬,³,,·,é,Æ%oo¹,đ<æ□Ø,Á,Ä%oo
%o't,·,éfXf^fbfj□[fg,ìCEø%ooÊ,É,È,è,Ü,·□B□Ý'è'l,đ'ã,«,,·,é,Æ%oo¹,đ,ì,î,μ,Ä%oo
%o't,·,éfXf%oo□[,ìCEø%ooÊ,É,È,è,Ü,·□B

[Œø%oÊ] [f|fbfg]fRf}f"fh

<Èff[f^,lfpf"flfbfg,đŽw'è,μ,Û,·□Bfpf"flfbfg,ìŸ'è,đ•ï□X,·,é,±,Æ,Å□¶%oE,ì
%o¹,ì,Å,éfof%of"fX,đŽw'è,μ,Û,·□B
Žw'è,μ,½"í^í,ª, ,é,©"Û,©,ÅŸ'è,đ,·,éf_fCfAf□Of{fbfNfX,ª^Û,È,è,Û,·□B



Žw'è,μ,½"í^í,ª, ,é
%o¹•„,fpfŒfbfg,đŽg,Á,Äf}fEfX,Å%o¹•„,đ"ü—í,·,é,Æ,«,lfpf"flfbfg,ªŸ'è,μ,½fpf"fl
fbfg,É•ï□X,³,ê,Û,·□B
•@%oì,ì"S□l,Å%o¹□°"ü—í,·,é,Æ,«,lfpf"flfbfg,ªŸ'è,μ,½fpf"flfbfg,É,È,è,Û,·□B
Žw'è,μ,½"í^í,lfpf"flfbfg,ªŸ'è,μ,½fpf"flfbfg,É•ï□X,³,ê,Û,·□B
[Œø%oÊ•ò□W] f_fCfAf□fO f{fbfNfX,Å<Èff[f^,lfpf"flfbfg,đŽw'è,μ,Û,·□B



Žw'è,μ,½"í^í,ª,È,ç
%o¹•„,fpfŒfbfg,đŽg,Á,Äf}fEfX,Å%o¹•„,đ"ü—í,·,é,Æ,«,lfpf"flfbfg,ªŸ'è,μ,½fpf"fl
fbfg,É•ï□X,³,ê,Û,·□B
•@%oì,ì"S□l,Å%o¹□°"ü—í,·,é,Æ,«,lfpf"flfbfg,ªŸ'è,μ,½fpf"flfbfg,É,È,è,Û,·□B
[fpf"flfbfg] f_fCfAf□fO f{fbfNfX,Å<Èff[f^,lfpf"flfbfg,đŽw'è,μ,Û,·□B

[fpf“f|fbfg] f_fCfAf□fO f{fbfNfX

Žw'è,μ,½"í^í,ª,È,ç,Æ,«,ìfpf“f|
fbfg,đ□Ý'è,·,é_fCfAf□fOf{fbfNfX,Å,·□B□Ý'è'l,đ□¬,³,,·,é,Æ%oo¹,ìfof
%of“fX,í□¶,æ,è,É,È,è,Ü,·□B□Ý'è'l,đ'â,«,,·,é,Æ%oo¹,ìfof%of“fX,í
%oE,æ,è,É,È,è,Ü,·□B
't%o>,É,·,é,É,í,U,S,đ□Ý'è,μ,Ü,·□B

[Æø%oÊ]||[f,fWf...fÆ[fVf#f"]fRf}f"fh

<Èff[f^,lf,fWf...fÆ[fVf#f"],đŽw'è,μ,Û,·Bf,fWf...fÆ[fVf#f"],ìÝ'è,đ•ïX,·,é,±,ÆŠyŠí,ì%o¹F,đ•ï,·,é,±,Æ,ª,Å,«,Û,·B

Žw'è,μ,½"í^í,ª,·,é,©"Û,©,ÅÝ'è,đ,·,éf_fCfAfO{fbfNfX,ª^Û,È,è,Û,·B



Žw'è,μ,½"í^í,ª,·,é

%o¹•„fpfÆfbfg,đŽg,Á,Äf}fEfX,Å%o¹•„,đ"ü—í,·,é,Æ,«,lf,fWf...

fÆ[fVf#f"],ªÝ'è,μ,½f,fWf...fÆ[fVf#f"],É•ïX,ª,è,Û,·B

•@%oì,ì"S|,Å%o¹ª"ü—í,·,é,Æ,«,lf,fWf...fÆ[fVf#f"],ªÝ'è,μ,½f,fWf...

fÆ[fVf#f"],É,È,è,Û,·B

Žw'è,μ,½"í^í,lf,fWf...fÆ[fVf#f"],ªÝ'è,μ,½f,fWf...fÆ[fVf#f"],É•ïX,ª,è,Û,·B

[Æø%oÊ•ÒW] f_fCfAfO f{fbfNfX,Å<Èff[f^,lf,fWf...fÆ[fVf#f"],đŽw'è,μ,Û,·B



Žw'è,μ,½"í^í,ª,È,¢

%o¹•„fpfÆfbfg,đŽg,Á,Äf}fEfX,Å%o¹•„,đ"ü—í,·,é,Æ,«,lf,fWf...

fÆ[fVf#f"],ªÝ'è,μ,½f,fWf...fÆ[fVf#f"],É•ïX,ª,è,Û,·B

•@%oì,ì"S|,Å%o¹ª"ü—í,·,é,Æ,«,lf,fWf...fÆ[fVf#f"],ªÝ'è,μ,½f,fWf...

fÆ[fVf#f"],É,È,è,Û,·B

[f,fWf...fÆ[fVf#f"] f_fCfAfO f{fbfNfX,Å<Èff[f^,lf,fWf...

fÆ[fVf#f"],đŽw'è,μ,Û,·B

[f,fWf...fCE[fVf#f"] f_fCfAf□fO f{fbfNfX

Žw'è,μ,½"íí,ª,È,ç,Æ,«,ìf,fWf...

fCE[fVf#f",đ□Ý'è,; ,éj_fCfAf□fOf{fbfNfX,Å,·□B□Ý'è'l,đ□¬,³,, ,é,Æf,fWf...

fCE[fVf#f",ª□¬,³,,È,è,Ü,·□B□Ý'è'l,đ'å,«,, ,é,Æf,fWf...fCE[fVf#f""å,«,,È,è,Ü,·□B

[Œø%oÊ]||[fz[f<fh]fRf}f“fh

<Èff[f^,lfz[f<fh,ðŽw'è,μ,Û,·Bfz[f<fh,ìŸ'è,ð•ïX,·,é,±,ÆŠyŠí,ì
%o¹F,ð•ï,·,é,±,Æ,ª,Å,«,Û,·B[fz[f<fh] f_fCfAfO
f{fbfNfX,Å<Èff[f^,lfz[f<fh,ðŽw'è,μ,Û,·B



Žw'è,μ,½"í'í,ª, ,é

%o¹•„fpfŒfbfg,ðŽg,Á,Äf}fEfX,Å%o¹•„,ð“ü—

í,·,é,Æ,«,lfz[f<fh,ªŸ'è,μ,½fz[f<fh,É•ïX,³,è,Û,·B

•@%oì,ì“S|,Å%o¹q“ü—í,·,é,Æ,«,lfz[f<fh,ªŸ'è,μ,½fz[f<fh,É,È,è,Û,·B

Žw'è,μ,½"í'í,lfz[f<fh,ªŸ'è,μ,½fz[f<fh,É•ïX,³,è,Û,·B



Žw'è,μ,½"í'í,ª,È,ç

%o¹•„fpfŒfbfg,ðŽg,Á,Äf}fEfX,Å%o¹•„,ð“ü—

í,·,é,Æ,«,lfz[f<fh,ªŸ'è,μ,½fz[f<fh,É•ïX,³,è,Û,·B

•@%oì,ì“S|,Å%o¹q“ü—í,·,é,Æ,«,lfz[f<fh,ªŸ'è,μ,½fz[f<fh,É,È,è,Û,·B

[fz][f<fh] f_fCfAf_fO f{fbfNfX

fz[f<fh,ð'è,·,é_fCfAf_fO{fbfNfX,Å,·BOFF,ð'l'ð,·,é,Æfz[f<fh,ìCEø%oÊ,ª,í, ,è,
Ü,¹,ñB ON,ð'l'ð,·,é,Æfz[f<fh,ìCEø%oÊ,ª, ,è,Ü,·B

[Æø%oÊ]||[fŠfo[fu]fRf}f“fh

<Èff[f^,lfŠfo[fu,ðŽw'è,μ,Û,·BfŠfo[fu,ìŸ'è,ð•ïX,·,é,±,ÆŠySí,ì

%¹[F,ð•ï,·,é,±,Æ,^a,Á,«,Û,·B

Žw'è,μ,½"í^í,^a, ,é,©"Û,©,ÁŸ'è,ð,·,éf_fCfAf{fbfNfX,^a^Ù,È,è,Û,·B



Žw'è,μ,½"í^í,^a, ,é

%¹•„fpfÆfbfg,ðŽg,Á,Äf}fEfX,Á%¹•„,ð“ü—

í,·,é,Æ,«,lfŠfo[fu,^aŸ'è,μ,½fŠfo[fu,É•ïX,³,é,Û,·B

•@%oì,ì“S□,Á%¹□^o“ü—í,·,é,Æ,«,lfŠfo[fu,^aŸ'è,μ,½fŠfo[fu,É,È,è,Û,·B

Žw'è,μ,½"í^í,lf,fWf...fCE[fVf†“,^aŸ'è,μ,½fŠfo[fu,É•ïX,³,é,Û,·B

[Æø%oÊ•òW] f_fCfAf{fbfNfX,Á<Èff[f^,lfŠfo[fu,ðŽw'è,μ,Û,·B



Žw'è,μ,½"í^í,^a,È,ç

%¹•„fpfÆfbfg,ðŽg,Á,Äf}fEfX,Á%¹•„,ð“ü—í,·,é,Æ,«,lf,fWf...

fCE[fVf†“,^aŸ'è,μ,½fŠfo[fu,É•ïX,³,é,Û,·B

•@%oì,ì“S□,Á%¹□^o“ü—í,·,é,Æ,«,lfŠfo[fu,^aŸ'è,μ,½fŠfo[fu,É,È,è,Û,·B

[fŠfo[fu] f_fCfAf{fbfNfX,Á<Èff[f^,lfŠfo[fu,ðŽw'è,μ,Û,·B

[fŠfo][fu] f_fCfAf_fO f{fbfNfX

Žw'è,μ,½"í^í,ª,È,ϕ

,Æ,«,ì,đŠfo[fu,đŸ'è,·,é_fCfAf_fOf{fbfNfX,Å,·BŸ'è'l,đŸ,³,-

,·,é,ÆfŠfo[fu,ªŸ,³,,È,è,Û,·BŸ'è'l,đ'å,«,,·,é,ÆfŠfo[fu,ª'å,«,,È,è,Û,·B

[Æø%Ê]||[fR[f%ofX]fRf}f“fh

<Èff[f^,lfR[f%ofX,ðŽw'è,μ,Û,·BfR[f%ofX,ìÝ'è,ð·ïX,·,é,±,ÆŠyŠí,ì
%¹F,ð·ï,·,é,±,Æ,^aÁ,«,Û,·B
Žw'è,μ,½"í^í,^a, ,é,©"Û,©,ÁÝ'è,ð,·,éf_fCfAfO f{fbfNfX,^aÛ,È,è,Û,·B



Žw'è,μ,½"í^í,^a, ,é

%¹·,,fpfÆfbfg,ðŽg,Á,Äf}fEfX,Á%¹·,,ð"ü—í,·,é,Æ,«,lfR[f%ofX,^aÝ'è,μ,½fR[f%ofX,É·ïX,³,è,Û,·B

•@%^ol,ì"S|,Á%¹ü—í,·,é,Æ,«,lfR[f%ofX,^aÝ'è,μ,½fR[f%ofX,É,È,è,Û,·B

Žw'è,μ,½"í^í,lfR[f%ofX,^aÝ'è,μ,½fR[f%ofX,É·ïX,³,è,Û,·B

[Æø%Ê·ÒW] f_fCfAfO f{fbfNfX,Á<Èff[f^,lfR[f%ofX,ðŽw'è,μ,Û,·B



Žw'è,μ,½"í^í,^a,È,ç

%¹·,,fpfÆfbfg,ðŽg,Á,Äf}fEfX,Á%¹·,,ð"ü—í,·,é,Æ,«,lfR[f%ofX,^aÝ'è,μ,½fR[f%ofX,É·ïX,³,è,Û,·B

•@%^ol,ì"S|,Á%¹ü—í,·,é,Æ,«,lfR[f%ofX,^aÝ'è,μ,½fR[f%ofX,É,È,è,Û,·B

[fR[f%ofX] f_fCfAfO f{fbfNfX,Á<Èff[f^,lfR[f%ofX,ðŽw'è,μ,Û,·B

[fR[f%ofX] f_fCfAfO f{fbfNfX

Žw'è,μ,½"íí,ª,È,ç,Æ,«,lfR[f
%ofX,đY'è,·,éf_fCfAfOf{fbfNfX,Å,·BÝ'è'l,đ¬,³,,·,é,ÆfR[f%ofX,ª¬,³,-
,È,è,Ü,·BÝ'è'l,đ'å,«,,·,é,ÆfR[f%ofX,ª'å,«,,È,è,Ü,·B

[fvf]fWfFfNfg] f[fjf...[[,lfRf}f“fh

[fvf]fWfFfNfg] f[fjf...[[,É,Í^È%º,ì,æ,ɣ,ÈfRf}f“fh,ª, ,è,Û,·B



[V<K]i[-]@[]@fvf]fWfFfNfg,ðV<K]i[-],µ,Û,·B



[Š,]@[]@Šù‘¶,lfvf]fWfFfNfg,ðŠ,«,Û,·B



[•Ò]W]@[]@fvf]fWfFfNfg,ì“à—e,ð•Ò]W,µ,Û,·B



[•Â,¶,é]@[]@fvf]fWfFfNfg,ð•Â,¶,Û,·B



[,l,h,c,hftf@fCf<]i[-]@[]@fvf]fWfFfNfg,©,ç,l,h,c,hftf@fCf<,ð]i[-],µ,Û,·B

ŽQ]Æ]Ffvf]fWfFfNfg,Æ,Í...

[fvf]fWfFfNfg][[V<K]fRf}f“fh

@V<K, ìfvf]fWfFfNfg, ð]ì-, μ, Ü, ·B V<Kfvf]fWfFfNfg]ì-f_CfAf]fOf{fbfNfX,
ÅV<K, É]ì-, μ, ½, çfvf]fWfFfNfgftf@fCf<-
¼, ðŽw’è, μ, Ü, ·BŠg’£Žq, í.PRJ, ðŽw’è, μ, Ü, ·B

Šù‘¶, ìfvf]fWfFfNfg, í[Š], ...] fRf}f“fh, ÅŠJ, «, Ü, ·B

[fvf]fWfFfNfg][[ŠJ,]fRf}f“fh

Šù‘¶, ðfvf]fWfFfNfg, ðŠJ, «, Ü, ·B‘O%oňŠJ, ç, Ä, ç, ½•i”, ðÈff[f^, ðŠJ, , ±
, Æ, ð, Ä, «, Ü, ·B

V, ½, Éfvf]fWfFfNfg, ði]¬, ·, é, É, Í [V<K]i]¬]fRf}f“fh], ðŽg, Á, Ä, , ¾, ³, çB

[fvf fWfFfNfg] | [• Ò W]fRf}f“fh

[fvf fWfFfNfgftf@fCf<] f_fCfAf fOf {fbfNfX, Åfgf%oofbfN, Éî
%ož, ·, éSRTftf@fCf<, ð Ý'è, μ, Ü, · B

[fvf fWfFfNfgftf@fCf<] f_fCfAf fOf {fbfNfX

fgf%ofbfN,É'í%ž,·,éSRTftf@fCf<,đ"ü—í,μ,Û,·□B

fgf%ofbfN,P,O,ífŠfYf€□ifhf%of€,È,Ç,ì'ÅŠyŠ'í□j,Å,·□B,»,"è^ÈŠO,íf□f□fffB□[,Å,·□B



f{f^f",đfNfŠfbfN,·,ê,íf□f"fo□[ftf@fCf<

f_fCfAf fOf {fbfNfX,É,æ,èftf@fCf<,đŠÈ'P,ÉŽw'è,·,é,±,Æ,ª,Å,«,Û,·□B

[fvf fWfFfNfg] | [•Â, ¶, é]fRf}f“fh

fvf fWfFfNfg, ð•Â, ¶, Ü, · BŠJ, ç, Ä, ç, ½ < Èff [f^ftf@fCf < iŠg' £ŽqSRT j, à•Â, ¶, Ü, · B

[fvf fWfFfNfg] [l,l,h,c,hftf@fCf< i i -]fRf}f“fh

fvf fWfFfNfg,đ,l,h,c,hftf@fCf<,É o—í,·,é,±
,Æ,ª,Å,«,Ü,·B,l,h,c,hftf@fCf<,ì **Format 1** ,É'í%ž,μ,Ä,ç,Ü,·B
,l,h,c,hftf@fCf<,ífvf fWfFfNfg,Æ“˘,¶fffBfÇfNfgfŠ,É i i - ,³,ê,Ü,·Bftf@fCf<-
¼,í“˘,¶,Å AŠg'£Žq,ªMID,É,È,è,Ü,·B [l,l,h,c,hftf@fCf< i i -]
f_fCfAfOf{fbfNfX,Å,l,h,c,hftf@fCf<,đ i i - ,μ,Ü,·B

—á jsample.prj ,í @sample.mid @,l,l,h,c,hftf@fCf<,đ o—í,μ,Ü,·B

[,l,h,c,hftf@fCf<ñï-] f_fCfAf_fOf{fbfNfX



f^fCf€fx[]fX

[]@f^fCf€fx[]fX,Æ,í%%'t,·,é,ì,ÉŠî€

,Æ,·,éžžŠÔ,ð'è<` ,μ,Û,·[]Bf^fCf€fx[]fX,ì""l,ªá,«,·,ê,î³Šm,È%%'t,ªo—

^,Û,·[]B,μ,©,μ[]AžžŠÔ,ðCv'ª,·,é,±,Æ,ª[]^—[]'—“x,ì'x,çpf\frf” ,É,Æ,Á,Ä,í'Ç,ç

,Á,©,È,,È,Á,Ä,μ,Û,ç[]³,μ,%%'t,·,é,±,Æ,ª,Á,«,È,,È,é,±,Æ,à, ,è,Û,·[]B,Û,½”½'Í,Éf

^fCf€fx[]fX,ð[]¬,³,,·,é,Æ[]^—[]'—“x,ì'x,çpf\frf” ,Á,à[]³,μ,%%'t,μ,â,·,-

,È,è,Û,·[]B,» ,ìª[]A%%'t,ìžžŠÔ[] ,“x,ª,í,é,,È,é,ì,Á-{—^ ,ì%%'t,Æ,í[]-

,μ^á,Á,Ä,«,Û,·[]B

[]@[]""l,í,X,U,Á,â,Á,Ä,Ý,Ä,à,μ%%'t,ª^á,Á,½Š´ ,¶,Á, ,Á,½,ç[]A,X,U,æ,è'á,«,È[]""l,

ðfZfbfg,μ,Ä,Ý,Ä%%º,³,ç[]B



%%¹CE¹fŠfZfbfg,ì•t%%Á

[]@%%¹CE¹,ðfŠfZfbfg,·,éff[]f^ ,ð•t%%Á,·,é,©[]Ý'è,μ,Û,·[]B,l,h,c,h%%'tfl

ftfg,É,æ,Á,Ä,í%%'tŠJžn,Éž©“ ®“l,É%%¹CE¹,ìfŠfZfbfg,ð,μ,Ä[]³,μ,%%'t,·,é,à,ì,à,

,è,Û,·[]B,μ,©,μ[]A%%'tŠJžn,Éž©“ ®“l,É%%¹CE¹,ìfŠfZfbfg,ð,μ,Ä,ç,È,çfl

ftfg,Á,í,` ,Æ,ç,ª<È,ð%%'t,μ,½CEã[]A,a,Æ,ç,ª<È,ð%%'t,μ,½,Æ,«,É[]³,μ,%%

%%'t,³,è,È,ç,±,Æ,ª, ,è,Û,·[]B,±,è,í,` ,Æ,ç,ª<È,ìCEø%%Ê“™ ,ªžc,Á,Ä,ç,Ä,a,Æ,ç

,ª<È,É%%e<ž,ð—^ ,ì,Ä,μ,Û,ª,½,ß,Á,·[]B,±,ì,æ,ª,È,±,Æ,ð%%ñ”ð,·,é•û-@,Æ,μ,Ä

%%¹CE¹,ìfŠfZfbfgff[]f^ ,ð[]Ä[]%%,É•t%%Á,·,é,±,Æ%%ðCE^ ,·,é,±,Æ,ª,Á,«,Û,·[]B

[]ì,Á,½<È,ìŠyŠí,ª

,f,l%%¹CE¹,¾,` ,ðžg,Á,Ä,ç,é,Æ,«,ÍGM System ON

,f,r%%¹CE¹,ìŠyŠí,àžg,Á,Ä,ç,é,Æ,«,Í GS Reset

,ðfZfbfg,μ,Ä%%º,³,ç[]B

^ê•” ,ìfhf%ofCfo[]f\ftfg,ÅGM System ON[]A GS Reset[]@,ª,·,é,Æ“ ®[]ì•s—

Ç,É,È,é,à,ì,ª, ,é,©,à,μ,è,Û,¹,ñ[]B,à,μ[]A[]u%%'t,Á,«,È,ç,ì,Á%%½,Æ,©,μ,Ä

%%º,³,ç[]v

,ì,æ,ª,È[]ó<μ,ª” []¶,μ,½,ç

,È,μ

,ð'ì'ð,μ,Ä%%º,³,ç[]B

fvf□fWfFfNfg,Æ,í...

fj“fO—Š^{3/4},í,P,Ufgf%ofbfN,É'í%ž,đ,Ä,ç,Ü,·□Bfgf%ofbfN,Æ
%¹Šyff□[f^ftf@fCf<□iŠg'£ŽqSRT□j,đŠÖ~A,Ä,¯,é,ì,²fvf□fWfFfNfg,Ä,·□B,Pfgf
%ofbfN,É'í,μ,Ä,P,Ä,ì%¹Šyff□[f^ftf@fCf<□iŠg'£ŽqSRT□j,²í
%ž,μ,Ü,·□Bfvf□fWfFfNfg,đ□i□¬,μ,Ä,¯,·,íftfg,đ<N“® ,μ,½,Æ,«□A'O%ñŠJ,ç,Ä,ç
,½ftf@fCf<,²Ž©“®“l,Éf□[fvf“,μ,Ü,·□BÆ»□Ý□ì<Æ't,ìftf@fCf<,đf□f,,μ,È,-
,Ä,·,Ý,Ü,·□B

,Ü,½fvf“fO—Š^{3/4},Ä,íŽÿ,ì,æ,α,È—~“_ ,², ,è,Ü,·□B
—á,ì,íAfÆf“fW,đ,·,é□ê□#□AfMf^□[“°t,²,Q,Ä,ì^Ä,², ,è,Ç,¿,ç,đŽg,¯,α,©-À,Á,Ä,ç
,é,Æ,« ,È,ÇSRTftf@fCf<,đ□Ý'è,μ^{1/4},·,¾,¯,Ä'®,«”ä,x,é,±
,Æ,²ŠÈ'P,É,Ä,« ,Ü,·□B,Ü,½□ì—p,μ,È,©,Á,½^Ä,íftf@fCf<,Æ,μ,ÄŽc,¹,é,ì,ÄÆã,Ä□Ä—
~—p,·,é,±,Æ,²,Ä,« ,Ü,·□B,±,ì,æ,α,Éfvf“fO—Š^{3/4},Ä,íŽv,ç,Ä,ç
,½ftf@fCf<□[fY,đf□f,,μ,Ä□iSRTftf@fCf<,É,μ,Ä□j,»,é,đ,à,Æ,É,Ü,Æ,β□ä,°,Ä□Ä□l,ì<Èff□[f
^,É,·,é,±,Æ,²—e^Ö,É,Ä,« ,Ü,·□B

'□□jfgf%ofbfN,P,□□Ffgf%ofbfN,P,O,ífŠfyf€□ê—p,ìfgf%ofbfN,Ä,·□Bfgf
%ofbfN,P,O,É,ífŠfyf€Æ`Ž®,ì<Èff□[f^ftf@fCf<□iŠg'£Žq.SRT□j,đ□Ý'è,μ,Ü,·□B

[%o%o't] f[]fjf...[][,ìfRf}f“fh

[%o%o't] f[]fjf...[][,É,í^È%oº,ì,æ,α,ÈfRf}f“fh,ª, ,è,Û,·[]B



[%o¹Œ¹fŠfZfbfg][][]@%o¹Œ¹,ðfŠfZfbfg,μ,Û,·[]B



[MIDlfffofCfX][][]@%o%o't,ì,½,β,ìMIDlfffofCfX,ðŸ'è,μ,Û,·[]B



[Š,,,è[]ž,ÝŽüŠú][][]@%o%o't,ì,½,β,ìŠ,,,è[]ž,ÝŽüŠú,ðŸ'è,μ,Û,·[]B



[ÚíPÙÒ°À·\Ž!][][]@fŒfxf<f[]^·\Ž!,ì%oÂ"Û,ðŽw'è,μ,Û,·[]B



[‘Sfgf%o_bfN][][]@‘Sfgf%o_bfN,ðf~fbfNfX,μ,Ä%o%o't,μ,Û,·[]B



[Œ],è•Ô,μ%o%o't][][]@Œ],è•Ô,μ%o%o't,μ,Û,·[]B



[%o%o'tŠ]Žn][][]@fAfNfefBfu,ÈfEfBf“fh[][,ìÄ[]¶,ð,μ,Û,·[]B



[%o%o't'âŽ~][][]@Ä[]¶,ð'âŽ~,μ,Û,·[]B

ŠÖ~A[]Ff~fLfT[]LfEfBf“fh[]

[%%%'t]|[Š,,èž,ÝŽüŠú]fRf}f“fh

Š,,èž,ÝŽüŠú,đ[Š,,èž,ÝŽüŠú]f_fCfAf_fOf{fbfNfX,ÅŽw'è,μ,Ü,·B

[Š,,èž,ÝŽüŠú]f_fCfAf_fOf{fbfNfX

,P,,"C,Q,"C,S,"C,W,"C,P,U," ,©,ç,Ç,ê,©,đŽw'è,μ,Û,·BŽžŠÔ,ª¬,³,
ç,Û,Çff[f^,É%ŽÀ,É%%'t,μ,Û,·B
^—'¬"x,ì'x,çfpfRf",ìê#
%%'t,ª—,ê,é
%%'t,ª,Å,«,È,ç
,±,Æ,à, ,è,Û,·B^—'¬"x,ì'x,çfpfRf",đ,"Žg,ç,ì•û,í'å,«,ÈŽžŠÔ,đfZfbfg,μ,Ä,Ý,Ä
%º,³,çB,Û,½fçfxf<f[f^,ì•Ž!,đ,μ,È,ç,æ,α,É,·,é,ÆfpfRf",ì•%
%x,ªçyç,³,ê,é,ì,Åçfxf<f[f^•Ž!,đ,μ,È,ç,ÉÝ'è,μ,Ä,Ý,Ä%º,³,çB
ŽQÆ:[%%'t][çfxf<f[f^]

,,"Ff~fŠ•bB,O□D,O,O,P•b,Å,·B

[%%%'t]||[fCfxf<f[] [f^]fRf}f“fh

f~fLfT[] [fEfBf“fh[] [É, ,éfCfxf<f[] [f^ ,ì•\Ž![]A”ñ•\
Ž!,đ[]Ø,è'Ö,!,Ü,·[]BfCfxf<f[] [f^ ,^a•\Ž!,³,è,Ä,é,Æ,«,í[]A,±,ìfRf}f“fh^{-1/4},ì%
i,Éf`fFfbfNf}[] [fN,^a•\Ž!,³,è,Ü,·[]B
[]^—[]'¬“x,ì'x,çfpf}fRf“,ì[]ê[]#[]AfCfxf<f[] [f^ ,ì•\Ž!,đ,·,é,Æfpf}fRf“,ì•%%x,^a[]d,-
,È,è%%'t,^a,à,½,Â,•s<i[]#,“[]¶,·,é,±,Æ,^a ,è,Ü,·[]B,±,ì,æ,α,È,Æ,«fCfxf<f[] [f^ \
Ž!,đ,μ,È,ç,É[]Ý'è,·,é,±,Æ,É,æ,è%%'t,ì,à,½,Â,«,^a%%đ[]Á,·,é,±,Æ,^a ,è,Ü,·[]B

[%%%'t]||[%%%'tŠJŽn]fRf}f"fh

fAfNfefBfu,ÈfEfBf"fh|[,đÄ¶,μ,Û,·□B
<Èff|[f^,lfEfBf"fh|[,afAfNfefBfu,Å, ,ê,îŠY"-
SRTftf@fCf<,đÄ¶,μ,Û,·□BŽw'è,μ,½"íí,ª, ,ê,îAŽw'è,μ,½"íí,¾,-,đ%%
%'t,μ,Û,·□B^ê•"•ª,¾,-%%%'t,μ,½,ç,Æ,«,íA"íí,đŽw'è,μ,Ä%%º,³,ç□B
f~fLfT|[fEfBf"fh|[,afAfNfefBfu,Åfvf|fWfFfNfg,ªŽw'è,μ,Ä, ,ê,îfvf|fWfFfNfg,đ%%
%'t,μ,Û,·□B%%%'t,đ"r†,ÅŽ~,ß,é,É,í[%%%'t]||[%%%'t'âŽ~]fRf}f"fh,đŽg,ç
,Û,·□B

fVf#|[fgf]fbfg

fc|[f<fo|: 

ŽQ|Æ
['Sfgf%ofbfN]
[Æ],è•Ô,μ%%%'t]

[%%'t] | [%%'t'âž~]fRf}f“fh

%%'t,đ'âž~,μ,Ü,·B

fVf†[fgf]fbfg

fc[f<fo[:



[%%%'t] [['Sfgf%ofbfN]fRf}f"fh

'Sfgf%ofbfN,đf~fbfNfX,μ,Ä%%%'t,μ,Ü,·□B

□E'Sfgf

%ofbfNfRf}f"fh,afif",Å,àlft,Å,à□Af~fLFT□[fEfBf"fh□[,afAfNfefBfu,Åfvf□fWfFfNfg,
aŽw'è,μ,Ä, ,ê,îfvf□fWfFfNfg,đ%%%'t,μ,Ü,·□B

□E<Èff□[f^,ìfEfBf"fh□[,afAfNfefBfu,Å, ,ê,îŠY"-SRTftf@fCf<,đ□Ä□¶,μ,Ü,·□B

□@ SRTftf@fCf<,É," ,ç,ÄŽw'è,μ,½"í^í,a,È, ,ê,î□A'Sfgf%ofbfN,ì□Å□%

,©,ç□ÅÆã,Ü,Å%%%'t,μ,Ü,·□Bf~fLFT□[fEfBf"fh□[,đfAfNfefBfu,É,μ,Ä%

%%'t,μ,½,ì,Æ" ,¶,Å,·□B

□@ SRTftf@fCf<,É," ,ç,ÄŽw'è,μ,½"í^í,a, ,ê,î□A'Sfgf

%ofbfN,ìSRTftf@fCf<,ìŽw'è,μ,½"í^í,đ%%%'t,μ,Ü,·□B

SRTftf@fCf<,É," , ,é^ê"•^a,³/₄, ,Sfgf%ofbfN,đ%%%'t,μ,½,ç,Æ,«,í□A"í^í,đŽw'è,μ,Ä

%^o,³,ç□B"Á,ÉfAfCEf"fW,ì,Æ,«•Ö□W't,ìfAfCEf"fW,μ,Ä,ç,é"•^a,^a'Sfgf%ofbfN,đ%

%%'t,³,¹,Ä,Ç,α,©□H,đŠm"F, ,é,ì,É'â•ï•Ö—~,Å,·□B

fVf†□[fgf]fbfg

fc□[f<fo□[:



[%%%'t]||[ŒJ,è•Ô,μ%%%'t]fRf}f“fh

ŒJ,è•Ô,μ%%%'t,μ,Û,·B
%%%'t,đŽ~,β,é,É,íA[%%%'t]||[%%%'t'âŽ~]fRf}f“fh,đŽg,ç,Û,·B
<È,ì%%%'t,ª|—¹,·,é,ÆA,P•bŠÔ,ì%%%'t<xŽ~ŽžŠÔ,ìŒãA%%
%'t,đÄŠJ,μ,Û,·B•ÔW,μ,Ä,ç,é•”•ª,ª,ª,Û,,Å,«,Ä,ç,é,©,đ
%½“x,àŒJ,è•Ô,μ,Ä'®,«,½,ç,Æ,«'â•ï•Ö—~,Å,·B

fVf†[fgf]fbfg

fc[f<fo[[:



[[%o%o't]]|[%o^1Œ^1fŠfZfbfg]fRf}f“fh

, ,é<È,đ'® ,ç,½Œã[AŽÿ,ì<È,đ'® ,ç,½,Æ,«³,μ,%o%o't,³,ê,È,ç,±,Æ,ª, ,è,Û,·B,±
,è,í'O,É'® ,ç,½<È,ìŒø%oÊ“™ ,ª%o^1Œ^1,ÉŽc,Á,Ä,ç,Ä%oe<¿,³,ê,é,½,ß,Å,·B,±,ì,æ,κ
,È,Æ,«,É%o^1Œ^1,đfŠfZfbfg,·,é,Æ³,μ,%o%o't,·,é,±,Æ,ª,Å,«,é,æ,κ,É,È,è,Û,·B
%o^1Œ^1,ìfŠfZfbfg,í[%o^1Œ^1fŠfZfbfg]f_fCfAf{fbfNfX,Å,“,±,È,ç,Û,·B

[%¹Ĉ¹,lfŠfZfbfg]f_fCfAf□fOf{fbfNfX

,“Žg,č,ì%¹Ĉ¹,^a

,f,ì%¹Ĉ¹,ì,Æ,«,ÍGM System ON

,f,r%¹Ĉ¹,ì,Æ,«,Í GS Reset

,đ‘l,Ñ□A,n,jf{f^f“,đfNfŠfbfN,μ,Ä%⁰,³,č□B

[%o%o't] | [MIDIfffofCfX]fRf}f"fh

@fRf"fsf... [f^,ÉŽÀ'•,³,ê,Ä,ç,é,l,h,c,h,ðÄ¶¶%oÂ"\,ÈfffofCfX,ì'l'ð,ª,Å,«,Ü,·B
%o%o't,ÉŽg,ç,½,çfffofCfX,ð'l,ñ,Å%oº,³,çB
MIDIfffofCfX,ì'l'ð,í[MIDIfffofCfX]f_fCfAf¶fOf{fbfNfX,Å,"±,È,ç,Ü,·B

[MIDIfffofCfX]f_fCfAf□fOf{fbfNfX

fRf“f{f{fbfNfX,lf{f^f“,đfNfŠfbfN,·,é,ÆŽg—p%oÂ“\,ÈfffofCfX,ª•\Ž|,³,ê,Ü,·□B%o%‘t,ÉŽg,ç,½,çfffofCfX,đ‘l,ñ,Å□A,n,jf{f^f“,đfNfŠfbfN,μ,Ä%oº,³,ç□B

,à,μMIDI ĩ-Êβ°,μ,©•\Ž|,³,ê,Ä,ç,È,¯,ê,î□A—LÆø,ÈfffofCfX,ª‘g,Ý□ž,Ü,ê,Ä,ç,Ü,¹,ñ□BŽ©•ª,lfpf\rf“,ÉMIDI□Ä□¶%oÂ“\,Èfn□[fhfEjfA,ªŽÀ‘•,³,ê,Ä,ç,é,©‘²,x,Ä,Ý,Ä%oº,³,ç□B,à,μŽÀ‘•,³,ê,Ä,ç,ê,î□AZŽ,Éfhf%ofCfo□[,ì‘g,Ý□ž,Ý,đ,μ,Ä%oº,³,ç□B

[fc [f<] f fjf... [l, ìfRf} f“fh

[fc [f<] f fjf... [l, É, í È%º, ìfRf} f“fh, ª, , è, Ü, · B



[ff [f^fx [fX] @ @ < Èff [f^ftf@fCf<, ìŠÇ—, ð, µ, Ü, · B



[fjf%o fìP, ì“S [l] @ @ fjf%o fìP, ì“S [l, ð, ß, ´, ·fgfCE [fjf“fO, ð, µ, Ü, · B



[%º¹•, ìfpfCEfbfg] @ @ %º¹•, ìâ<x•, ð“ü— íE'ù³, ·, é, ½, ß, ìfpfCEfbfg, ì•\Ž! ^"ñ•\ Ž! , ð, µ, Ü, · B



[fR [fhfpfCEfbfg] @ @ fR [fh, ð“ü— íE'ù³, ·, é, ½, ß, ìfpfCEfbfg, ì•\Ž! ^"ñ•\ Ž! , ð, µ, Ü, · B



[Šg'â•Ö [WfpfCEfbfg] @ @ f} fEfX, Å%º¹•, ì<É, ì^Ê'u, ð“ü— í, ·, é, ½, ß, ìfpfCEfbfg, ì•\ Ž! ^"ñ•\ Ž! , ð, µ, Ü, · B



[CEø%ºÊfpfCEfbfg] @ @ CEø%ºÊ, ìY'è'l, ð•\Ž! , ·, é, ½, ß, ìfpfCEfbfg, ì•\Ž! ^"ñ•\ Ž! , ð, µ, Ü, · B



[CE®"ÖfpfCEfbfg] @ @ %º¹•, ì<É, ì^Ê'u, ð“ü— í, ·, é, ½, ß, ìfsfAfmCE®"ÖfpfCEfbfg, ì•\Ž! ^"ñ•\ Ž! , ð, µ, Ü, · B



[•@%ºì, ì“S [l] @ @ •@%ºì, Å [ì<Èff [f^, ð'Å, žž, Ý, Ü, · B

fjf%oflfP,ì“S□I

□uffj%oflfP,ª,ª,Ü,,È,è,½,ç□I□v

,±,ñ,ÈŠè,ç,ðŽÀCE»,μ,Ä,,é,é,ì,ªffj%oflfP,ì“S□I,Ä,·□B
 fXfj□[fc,Ä,à—û□K,·,é,Æ,«□í,É□³,μ,ç,©,Ç,ª,©,ðf`fffbfN,μ,Ä,ç,È,ç,Æ□ã'B,í□
 ç“ì,Ä,·□B,»è,Ç,±,è,©Ž©CEÈ—,ìftfH□[fç,ª□g,É•t,ç,Ä,μ,Ü,ç,·,®,ÉCEÀŠE,ðŠ
 ´,¶,é,±,Æ,É,È,é,Ä,μ,â,ª□B—á,ì,î□A—^“úfSf<ft—û□K□è,Ö□s,Á,Ä,ç,é,ì,É'S'R□ãŽè,-
 ,È,ç,È,ç□B“y—j□A“ú—j<x,Ý,í,ç,Ä,àfXfL□[É□s,Á,Ä,ç,é,ì,É□ãŽè,,È,ç,È,ç□B□S“—
 ,½,è,í, ,è,Ü,¹,ñ,©□Hffj%oflfP,Ä,à—^“ú—û□K,μ,Ä,ç,é,ì,»è,È,è,É□ãŽè,-
 ,È,é,Ä,μ,â,ª□B,μ,©,μ<¶,Á,½%o¹'ö,ì,Ü,Ü,Ä,ç,,ç—û□K,μ,Ä,à<¶,Á,½%o¹Š´,ª'è'...
 ,μ,Ä,μ,Ü,ç,â,í,èCEÀŠE,ðŠ´,¶,Ä,μ,Ü,ª,ì,Ä,í,È,ç,Ä,μ,â,ª,©□B
 fXfj□[fc,Ä,àffj%oflfP,Ä,àŽt□,ÉŽtŽ-,μ,Ä—û□K,·,é,î□A^«ç,Æ,±,è,ð<□³,μ,Ä,-
 ,èŽ©•ª,ì,èŽè,ª□Ž•ž,Ä,«Ü,·□B,μ,©,μ□AŽt□,Æ'íŽq,Æ,ìŠÖCEW,í□ì,©,çCEμ,μ,ç
 ,à,ì,ª, ,é□BŽt□,ì,½,ß,ÉfcfjfCfbfVfŠ,ð,μ,È,,Ä,í,È,ç,È,ç,μ□Afff
 %oflfP“ã□i^ù,Ý“ã□j,ðŽö<Æ—,Æ,μ,Ä•%o¹S,μ,È,ç,Æ,ç, ,È,ç
 ,μ□D□D□D'íŽq,í'â•î,¾□□□□□□□□B
 ,μ,©,μ□Afff“fO—Š'¾,ìffj%oflfP,ì“S□I,ífçfjfCfbfVfŠ,àŽö<Æ—
 ,è, ,•zŽ{□□H□H□H□j,à—v<□,μ,Ü,¹,ñ□Bffj%oflfP,ì“S□I,Ä, ,È,½,ì%o¹Š
 ´,ªCEü□ã,μ,Ü,·□B□Ä□%o,Éffj%oflfP,ì“S□I,ðŽg,Á,Ä□uŽ©•ª,í%o¹'s,¾□B□v,Æ,ç,ªŽ-
 ŽÀ,ÉfvfþbfN,ðŽó, ,é,±,Æ,ª, ,é,©,à,μ,é,Ü,¹,ñ□B,μ,©,μ“ßŠì,μ,È,ç,Ä%oº,³,ç□B—
 û□K,·,é,î□ãŽè,,È,é,ì,ª³%oð—,ð,Ý,é,ì,í,©,è,Ü,·□B

fTfufRf}f“fh

['®%o¹]	%o¹,ì□, 'á,ð'® ,« ,Æ, éfgfCE□[ffj“fO,ð,μ,Ü,·□B
["□°Š'í'b]	^è,Ä,ì%o¹,ð"□°,·, éfgfCE□[ffj“fO,ð,μ,Ü,·□B
["□°ŽÀ'H]	<È,É□‡,í,¹,Ä%oì,xfgfCE□[ffj“fO,ð,μ,Ü,·□B

'□□j,à,μŽ©•ª,ª%o¹'s,¾,ÆŽv,Á,½•û□A,ª,Á,©,è,μ,È,ç,Ä%oº,³,ç□Bfff“fO—
 Š'¾ŠÖ~Aff□[f^,Æ,μ,Ä%o¹'s<~□İCEv%oæ,ª, ,è,Ü,·□Bfff“fO—
 Š'¾,ªfAfbfvf□□[fh,³,è,Ä,ç,é□è□Š,Æ“ ,¶□è□Š,É%o¹'s<~□İCEv
 %oæ,ªfAfbfvf□□[fh,³,è,Ä,ç,Ü,·□Bf_fEf“f□□[fh,μ,Ä—û□K,μ,Ä%oº,³,ç□B

[fc [f<] [fff%oflfP,ì“S l] [[’ ® %o¹] fRf}f“fh

%o¹, ì, ’á, ð’ ®, «, Æ, éfgfCE [fff“fO, ð, µ, Ü, ·B %o¹, ð’ ®, ç, Ä %o¹-¼, ð%oð“š, µ, Ü, ·B [fff
%oflfP, ì“S l] [[’ ® %o¹] f_fCfAf fOf {fbfNfX, ÅfgfCE [fff“fO, ðs, ç, Ü, ·B

[fj]f%o]f]P,ì“S[]I[]|['®%o¹] f_fCfAf[]fOf{fbfNfX

%o¹,ì[],'á,đ'®,«,Æ,éfgfCE[]f]f“fO,đ,μ,Û,·[]B%o¹,đ'®,ç,Ä%o¹-¼,đ%ođ“š,μ,Û,·[]B



%o¹^æ,ìžw'è

—û[]K,·,é%o¹^æ,đžw'è,μ,Û,·[]B

,P]f]Nf^[]f]u[]ã,í'±%o>fn,æ,è,P]f]Nf^[]f]u[]ã,ì%o¹^æ,Å,·[]B

middle C,í[]A'±%o>fn,ì%o¹^æ,Å,·[]B

,P]f]Nf^[]f]u%oº,í'±%o>fn,æ,è,P]f]Nf^[]f]u%oº,ì%o¹^æ,Å,·[]B

'S·“žw'è,·,é,Æ[]o'è"í'í,í,R]f]Nf^[]f]u,É,È,è,Û,·[]B

"h[]¶%o¹

"h[]¶%o¹,đžw'è,μ,È,ç,Æ,P]f]Nf^[]f]u,É,Â,ç,Äš²%o¹,V,Â,ì,V

%o¹,³[]o'è,³,è,Û,·[]B

"h[]¶%o¹,đžw'è,·,é,Æ,P]f]Nf^[]f]u,É,Â,ç,Äš²%o¹,V,Â" h[]¶%o¹,T,Â,ì,P,Q

%o¹,³[]o'è,³,è,Û,·[]B" h[]¶%o¹,³[]o'è,³,è,½,Æ,«,í,í[]"ifVf[]f]v[]j,đžg,Á,Ä

%ođ“š,μ,Û,·[]B



[]o'è f{f^f“

fNfšfbfN,·,é,Æ[]u-â'è,Å,·[]B[]v,Æ,μ,á,x,è[]AfsfAfm,Å[]uîßÝ[]v,Æ

%o¹,đ[]o'è,μ,Û,·[]B[]Ä“xfNfšfbfN,·,é,îfsfAfm,Å[]uîßÝ[]v,Æ%o¹,đ[]o'è,μ,Û,·[]B



f[]f“fg f{f^f“

[]o'è,μ,½%o¹,Æ“~ ,¶f]f]Nf^[]f]u,ì,b[]ifh[]j,ì%o¹,đ[]o,μ,Û,·[]B



%ođ“š,·,é,½,ß,îf{f^f“

,b[]C,c[]C,d[]C,e[]C,f[]C,`[]C,a f{f^f“

%o¹,ì“ü—í{f^f“,Å,·[]B,b[]fh[]A,c[]fCE[]A,d[]f~[]A,e[]ftf@[]A,f[]f[]

[]A,`[]f%o[]A,a[]fV,Å,·[]B%o¹-¼,ífhfCEf~[]A[]A[]A,ì,Û,©,É,b,c,d[]C[]C[]C,Å

%o~ ,ì,é,±,Æ,íR[]f]h[]i~a%o¹[]j“™,đžg,æ[]ã,Å[]d—

v,Å,·[]Bšμ,è,Ä,È,ç·û,í[]¥“ñ%o~ ,ì,Û,μ,â,æ[]B

[]“ f{f^f“

"h[]¶%o¹,đ%ođ“š,·,é,Æ,«f`fFbfN,μ,Û,·[]B" h[]¶%o¹,Å,È,ç

,Æ,«,í{f`fFbfN,đf]ft,É,μ,Ä%oº,³,ç[]B

CE^'è f{f^f“

%ođ“š,ì“ü—í,đ,μ,½,ç[]ACE^'èf{f^f“,đfNfšfbfN,μ,Û,·[]B

[]³%ođ,ì[]ê[]#[]ufsf“f]f“[]v,Æ%o¹,³[]o,Û,·[]B

šÔ^á,ç,ì[]ê[]#[]ufu[][]v,Æ%o¹,³[]o,Û,·[]B

,» ,μ,Ä-â'è“[]A[]³%ođ[]“[]A[]³%ođ—ì,³f]fEf“fgfAfbfv,μ,Ä,ç,« ,Û,·[]B

,R%oñ~A'±,μ,ÄšÔ^á,æ,Æ[]ufKf“fof[][][]v,Æ—ã,Û,μ,Ä,,è,Û,·[]B,È,ñ,Ä—D,μ,ç

,ì,¾,ë,α□B

[fc][f<]|[fj]f%oflfP,ì“S[]I[]|["°Šî‘b] fRf}f“fh

fsfAfm,Å'e,ç,½,P,Â,ì%°¹,Æ“˘,¶%°¹,đ”°º,·,éfgfÆ|[fj]f“fO,đ,μ,Û,·□B%°¹,đ”°º,μ,Ä
%°đ“š,μ,Û,·□B|[fj]f%oflfP,ì“S[]I[]|["°Šî‘b] f_fCfAf[]fOf{fbfNfX,ÅfgfÆ|[fj]f“fO,đ□s,ç
,Û,·□B

[f]f%oflfP,ì“S□I□□[“□°Šî‘b] f_fCfAf□fOf{fbfNfX

fsfAfm,Å'e,ç,½,P,Â,ì%o¹,Æ“~,¶%o¹,đ“□°,,éfgfCE□[fjf“fO,đ,μ,Û,·□B%o¹,đ“□°,μ,Ä
%ođ“š,μ,Û,·□B



%o¹^æ,ìžw'è

—û□K,·,é%o¹^æ,đžw'è,μ,Û,·□B

,PflfNf^□[fu□ã,í't%o>fn,æ,è,PflfNf^□[fu□ã,ì%o¹^æ,Å,·□B

middle C,í□A't%o>fn,ì%o¹^æ,Å,·□B

,PflfNf^□[fu%o°o,í't%o>fn,æ,è,PflfNf^□[fu%o°o,ì%o¹^æ,Å,·□B

'S•"žw'è,·,é,Æ□o'è"í^í,í,RflfNf^□[fu,É,È,è,Û,·□B

"h□¶%o¹

"h□¶%o¹,đžw'è,μ,È,ç,Æ,PflfNf^□[fu,É,Â,ç,Äš²%o¹,V,Â,ì,V

%o¹,â□o'è,³,ê,Û,·□B

"h□¶%o¹,đžw'è,·,é,Æ,PflfNf^□[fu,É,Â,ç,Äš²%o¹,V,Â" h□¶%o¹,T,Â,ì,P,Q

%o¹,â□o'è,³,ê,Û,·□B



□o'è f{f^f“

fNfŠfbfN,·,é,Æ□u-â'è,Å,·□B□v,Æ,μ,á,x,è□AfsfAfm,Å□uîßÝ□v,Æ

%o¹,đ□o'è,μ,Û,·□B□i-ñ,P•b□j

f}fCfN,ì•\ž|,ª,Å,é,Æ“~žž,É“~,¶%o¹,đ□u,ñ□`□v,Æ“□°o,μ,Û,·□B□i-ñ,P•b□j

□³%ođ,ì□ê#□ufsf“f|f“□v,Æ%o¹,ª□o,Û,·□B

ŠÔ^á,ç,ì□ê#□ufu□[□v,Æ%o¹,ª□o,Û,·□B

,»,μ,Ä-â'è□“□A□³%ođ□“□A□³%ođ—|,ªfjfEf“fgfAfbfv,μ,Ä,ç,«,Û,·□B

,R%oñ~A±,μ,ÄŠÔ^á,ª,Æ□ufKf“fof□□[□v,Æ—ã,Û,μ,Ä,,ê,Û,·□B,È,ñ,Ä—D,μ,ç

,ì,¾,è,ª□B

'□□j□u,ñ□`□v,Å,È,,Ä,à,©,Û,ç,Û,¹,ñ□B□i—á,|,í□u, □`□v□j□u,ñ□`□v^ÈŠO,ì

%o¹,Å,í“Fž~—|,ª¹/²□^«,È,é,±,Æ,ª, ,è,Û,·□B

f}fCfN,ª•\ž|,³,ê,Ä,©,ç“□°o,·,é,ì,ª,¹,í,μ,È,ç,Æžv,í,ê,é•û,í□AfsfAfm,ì

%o¹,ª□o,½,Æ,«,©,ç,Q•bŠÔ□u,ñ□`□v,Æ“□°o,μ,Ä%o°o,³,ç□B



[%o¹□°o“Fž~,ì²□@] f_fCfAf□fOf{fbfNfX

[fj]f%oflfP,ì“S□I□□|["□°ŽÀ‘H] f_fCfAf□fOf{fbfNfX

<È,É□‡,í,¹,Ä%òì,xfgfC□□[fjf“fO,ð,μ,Ü,·□BŽÀ‘H□—Žq‘âŠw,ì□Z%òì,ð—û□K,·,é<@“\
,Ä,í, ,è,Ü,¹,ñ□□i,à,¿,è,ñŽÀ‘H□—Žq‘âŠw,ì□Z%òì,ì<Èff□[f^ftf@fCf<,ð□□¬,·,é,í—
û□K,í,Ä,«,,Ü,·□B^_^ [L,C,x,Ä,à,ç,ç,±,Æ]□j
‘□□jSÄ<«,,É,æ,Ä,Ä,í%oo%o‘t,ì%oo¹,af}fCfN,É%oñ,è□ž,ÝfnfEfŠf“fO□A
%oo¹□°“FŽ` ,ìCÈÈËË□o,ð,·,é,±,Æ,ª, ,è,Ü,·□B,±,ì<@“\,ðŽg,x,Æ,«,,í%oo%o‘t,ð’®,-
,ì,Éfwfbfhfzf“,ðŽg—p,·,é,±,Æ,ð,“Š©,β,μ,Ü,·□B



—û□K,·,é“íí,ìžw’è
<Èff□[f^ftf@fCf<,ì—û□K,μ,½,ç“íí,ðŽw’è,μ,ÄfRfs□[μ,Ü,· ([•Ò□W]□□[fRfs□□[
fRf}f“fh) □BfRfs□[·,é“íí,í,Q□¬□B^Ê,ª,ç,ç,ÆŽv,ç,Ü,·□B
‘□□jRfs□[μ,Ä,È,ç,Æ,±,ì<@“\,í,Ä,©,; ,Ü,¹,ñ□B

%oo%o‘t,Ä%oo%o‘t,ð,Ç,ì,æ,x
,É,·,é,©,ðŽw’è,μ,Ü,·□BfIfNf^□[fu,ÄŽw’è,Æft□[fU□[ff□[f^,Ä^Ú²,ì,QŽÒ‘ð^ê,ì‘l‘ð,ð
,μ,Ü,·□B



fIfNf^□[fu,ÄŽw’è
%oo%o‘t,ì□,‘á,ðfIfNf^□[fu,ÄŽw’è,μ,Ü,·□B
,O,ªŽw’è,³,è,é,Æ•^—Ê,ì’Ê,è,É%oo%o‘t,³,è,Ü,·□B
f}fCfifX,ì□“l,ªŽw’è,³,è,é,Æ•^—Ê,æ,è□“l,ÄŽw’è,μ,½fIfNf^□[fu‘á,%o
%oo‘t,³,è,Ü,·□B□i□|,P,ðŽw’è,·,é,Æ,PfIfNf^□[fu‘á,%oo%o‘t,μ,Ü,·□B□j
□if}fCfifX<L□t,ì,È,ç□j□“l,ì,YŽw’è,³,è,é,Æ•^—
Ê,æ,è□“l,ÄŽw’è,μ,½fIfNf^□[fu□,·%o
%oo‘t,³,è,Ü,·□B□i,P,ðŽw’è,·,é,Æ,PfIfNf^□[fu□,·%oo%o‘t,μ,Ü,·□B□j



ft□[fU□[ff□[f^,Ä^Ú²
fIfNf^□[fu,ÄŽw’è,Ä,íŽ©•ª,ì□°,ì%oo¹^æ,Æ%oo%o‘t,ª□‡,í,È,ç,Ä%ooì,ì,È,ç,±
,Æ,ª, ,è,Ü,·□B,±,ì,æ,x,È,Æ,«ft□[fU□[ff□[f^,Ä^Ú²,ðŽw’è,μ,Ü,·□B
ft□[fU□[ff□[f^,í□AŽ©•ª□gfhh,ì
%oo¹,ð,l,h,c,h,Ä<K’è,³,è,½fm□[fg“Ô□t,Æ,μ,Ä’è<` ,μ,Ü,·□B
ft□[fU□[ff□[f^,ðŠì□€ ,É,μ,Ä^Ú²,³,è,Ä%oo%o‘t,³,è,Ü,·□B



‘¬“x,ìžw’è
—û□K,·,é‘¬“x,ðŽw’è,μ,Ü,·□B,P,O,O□“ ,Ä—{—^,ì‘¬“x,Ä,·□B□“l,ð‘â,«,-
,·,é,Æ‘□,,È,è,Ü,·□B□¬,³,,·,é,Æ‘x,,È,è,Ü,·□B



ft□[fU□[ff□[f^,ì□Ý’è
,·,Ä,Éft□[fU□[ff□[f^,ª,í,©,Á,Ä,ç,é,Æ,«,,í□“l,ð“ü—í,μ,Ä%ooº,³,ç□B

,í, ©, ç, È, ç
, Æ, «, í, ñ, ì, Õ, ÿ, ò, ñ, {, f, ^, f, ", ð, f, N, f, Š, f, b, f, N, μ, Ä, f, t, [, f, U, [, f, f, [, f, ^, ð, "c, ^, ¬, μ, Ä
%o, ³, ç, [, B, [, m, f, h, ì, Õ, ÿ, ò, ñ, {, f, ^, f, ", ð, f, N, f, Š, f, b, f, N, Æ, ä, ì, [, f, h, ì, Õ, ÿ, ò,]
f, f, C, f, A, f, [, f, O, f, {, f, b, f, N, f, X, Ä, Õ, ÿ, ò, μ, Ü, ·, [, B
Õ, ÿ, ò, μ, ½, f, t, [, f, U, [, f, f, [, f, ^, í, ·, Û, '¶, ³, è, Û, ·, [, B, ^, è, "x, f, Z, f, b, f, g, μ, Ä, ", -, ì, Ž, Ÿ
%o, ñ, É, f, Z, f, b, f, g, μ, È, , Ä, ·, Ý, Û, ·, [, B
[,] , ², ·, Ì, í, è, Ì, f, t, [, f, U, [, f, f, [, f, ^, à, ©, í, è, Û, ·, [, B, » , ì, "s, "x, [, Ý, 'è, μ, Ä, %o, ³, ç, [, B



f, R, f, s, [, [, μ, ½, "í, ^, ð, %o, %o, 't, ·, é, Æ, <, x, É, [, A, o, b, l, ~, ^, %o, ¹, ð, " ~, Ž, Ž, É, [, s, ç, Û, ·, [, B, %o
%o, 't, [,] —, ¹, Æ, ä, o, b, l, ~, ^, %o, ¹, μ, ½, f, f, [, [, f, ^, [, i, %o, ì, Á, ½, "à —, e, [, j, ð, %o
%o, 't, f, f, [, [, f, ^, Æ, "ä, Š, r, μ, Ä, ^, è, 'v, μ, Ä, ç, é, Æ, ±
, è, É, f, j, f, R, f, j, f, R, f, } [, [, f, N, ², Ä, «, Û, ·, [, B, [,] " _ , í, S, " ^, è, 'v, μ, Ä, ç, Ä, [, ³, %o, ð, Æ, μ, Ü, ·, [, B
[, ³, %o, ð, ì, [, è, [, [, u, f, s, f, "f, [, f, " [, v, Æ, %o, ¹, ², [, o, Ü, ·, [, B
Š, Ö, ^, á, ç, ì, [, è, [, [, u, f, u, [, [, v, Æ, %o, ¹, ², [, o, Ü, ·, [, B
, » , μ, Ä, â, ^, è, [, " [, A, [, ³, %o, ð, [, " [, A, [, ³, %o, ð —, !, ², f, j, f, E, f, "f, g, f, A, f, b, f, v, μ, Ä, ç, «, Û, ·, [, B
, R, %o, ñ, ~, A, ^, ±, μ, Ä, Š, Ö, ^, á, x, Æ, [, u, f, K, f, "f, o, f, [, [, [, v, Æ —, ä, Û, μ, Ä, , è, Û, ·, [, B, È, ñ, Ä —, D, μ, ç
, ì, ¾, è, x, [, B
, à, μ, ©, ·, é, Æ, f, j, f, R, f, j, f, R, f, } [, [, f, N, ð, P, Ä, à, à, ç, !, È, ç, [,] , ², ç, é, ©, à, μ, è, È, ç, ì, Á, ^, È
%o, ð, É, Ž, !, μ, Ü, ·, [, B



: f, j, f, R, f, j, f, R, f, } [, [, f, N
[, Ä, [, %o, í, [, u, ñ, [, v, Ä —, Û, [, K, μ, Ä, %o, ², ³, ç, [, B
Ž, Ÿ, É, %o, ì, Ž, Æ, Ä, %o, ì, Á, Ä, %o, ², ³, ç, [, B
%o, ì, Ž, Æ, ì, [, è, [, [, A, [, ², ì, Ž, ÿ, â, æ, è, %o, ¹, [, ², "F, Ž, ~, ², [, ä, Ž, è, , Ä, «, È, ç, [, è, [, [, ², , è, Û, ·, [, B



f, R, f, s, [, [, μ, ½, "í, ^, ð, %o, %o, 't, ·, é, Æ, <, x, É, [, A, o, b, l, ~, ^, %o, ¹, μ, ½, f, f, [, [, f, ^, [, i, %o, ì, Á, ½, "à —
e, [, j, ð, [, Ä, [, ¶, μ, Ü, ·, [, B, %o, %o, 't, Æ, Ž, ©, ·, ², ì, %o, ì, ð, '®, «, "ä, x, é, ±, Æ, ², Ä, «, Û, ·, [, B



~ , ^, %o, ¹, t, Ä, , è, Ì, %o, %o, 't, ð, ^, ä, Ž, ~ , Æ, o, b, l, ~, ^, %o, ¹, ì, ^, ä, Ž, ~ , ð, μ, Ü, ·, [, B
, ±, ì, Æ, «, [,] " _ , í, ³, è, Û, ¹, ñ, [, B, "r, t, Ä, Š, P, â, , μ, á, Ý, ð, μ, Ä, μ, Ü, Á, ½, Æ, «, Ž, g, Á, Ä
%o, ², ³, ç, [, B
[, Ä, [, ¶, t, Ä, , è, Ì, %o, %o, 't, ð, ^, ä, Ž, ~ , Æ, o, b, l, [, Ä, [, ¶, ì, ^, ä, Ž, ~ , ð, μ, Ü, ·, [, B



[%o¹°"FŽ-,ì'²®] f_CfAfOf{fbfNfX

[fh, iĚŸo] f_fCfAf_fOf{fbfNfX

Ž©•^a, i^o, ð, l, h, c, h, Å<K'è,³, ê, ½fm [fg"Ôt, Å'è<` , μ, Ü, ·B



, ðfNfŠfbfN, μ, Ä, P•bšÔu, ñ` ` ` ` ` ` ` v, Æ-³- , ð, È, ç^ê"Ô'á, ç^o, ðo, μ, Ä
%^o,³, çB~^%¹l—¹ĚãAZü"g", ÆNote No, É""^l,^a·\
Ž^l,³, ê, Ü, ·B, Ü, ½fsfAfm, iĚ®"Õã, É, àÔ, çŠÛ, Å·\
Ž^l,³, ê, Ü, ·BfsfAfm, iĚ®"Õ, ðfNfŠfbfN, ·, é, ÆfsfAfm, ð
%¹,^a, Å, Ü, ·B, Ü, ½AfNfŠfbfN, μ, ½Ě®"Õ, ðfm [fg"Ôt, ^aNote No, É""^l, Å·\
Ž^l,³, ê, Ü, ·BŽ©•^a, i^o, ÆfsfAfm, ð%¹,^a- , ¶, ©Šm" F, μ, Ä%^o,³, çB"- , ¶, Å, , ê, î³, μ, -
ĚŸo,³, ê, ½ff [f^, Å, ·B
%¹½"x, ©ŽŽs, μ, ÄAZ©•^a, ðff [f^, ð" c^-, μ, Ä%^o,³, çB
ÅĚã, É, n, jf {f^f", ðfNfŠfbfN, μ, Ü, ·B

,Ç,ꝛ,Å,à,ç,ç,±,Æ

,»ꝛç,İ,ÎŽÀ‘H□—Žq‘åŠw,É“¹~H,đŠu,Ä,Ä,·,®»,Î,É,U”N^Ê□Z,ñ,Å,ç,½,±,Æ,^a, ,è,Û,
μ,½□B□u,È,©,È,©,ç,ç,Æ,±,ë,É□Z,ñ,Å,ç,Û,·,Ë□B□v,ÆÆ¾,í,ê,½,±,Æ,^a, ,è,Û,μ,½
□BBut,,ç,Â,à<A,Á,Ä,,é,ì,^a-é,ì,P,P□ ,Å, ,è□A<x,Ý,ì“ú,Í,Û,Æ,ñ,ÇŽ€
,ñ,¾□ó‘Ô,ÅŠw□¶,İŽp,È,Ç-Å‘½,É,Ý,½,±,Æ,^a,È,ç,ì,Å, ,Á,½□B

,Û,¾,Û,¾fwf<fvftf@fCf<,ì□’, ,x,«,±,Æ,^a,½,,³,ñ, ,é,ì,É“¹□,¾□B
fKf“fof□□[□IfKf“fof□□[□IfKf“fof□□[□
,“ ,Á,Æ□A,±,ê,Í~J““g□‡,ì“¾^Ó<Z,¾□[□[□[□[□[□B

[•@%ò,ì)“S□I] f_fCfAf□fOf{fbfNfX

□@'□^Ó□F—á,ì,îfn'·'²,ì<È,ð□ì,Á,Ä,ç,é,Æ,«□AZ©•ª,Å,Í,æ,Ü,‰ò,ì,½,µ□A‰
%ò't,³,¹,é,Æ%ò,Á,½,Æ,¨,è,É,È,Á,Ä,ç,é,ì,É%ò¹•„,ÉfVff□[fv,ª•t,ç,Ä,ç,Ä
%ò½,©•İ,¾□I,ÆŽv,í,ê,é•û,ª,ç,é,æ,æ,Å,·□B,±,ê,í□A□^æ,ªfn'·'²,Å,Í,È,ç
,½,ß,ÉŽ©•ª,ì□²,Æ•^•\,ì•s^ê'v,ª□¶,¶,é,½,ß,Å,·□B,±,ì,æ,æ,È•s^ê'v,ð
%òñ”ð,·,é,½,ß,ÉŽ©“®^Ú'²f`fFfbfNf{fbfNfX,ðfif“,É,µ,Ä%ò²,³,ç□B,Ü,½Ž©•ª,ìfh,ì
%ò¹,ðfh,ìCEÿ□of{f^f“,ðfNfŠfbfN,µ,Ä“o~^,µ,Ä%ò²,³,ç□B,±,æ,·,ê,îŽ©•ª,ªŽ©'R,É
%ò,ì,Á,½fh,ªfn'·'²,ì•^—È,É□³,µ,□ì•^,³,ê,Ü,·□B

Ž©“®^Ú'²f`fFfbfNf{fbfNfX

□@fift,ì,Æ,«,í%ò,Á,½,Æ,¨,è,É□A^ê”Ô'½,ç%ò¹,ð't%ò>fn(middle C)
,©,ç,ì,PfifNf^□[fu,É”z'u,µ,Ü,·□B
□@fif“,ì,Æ,«,íCE»□Y,ì'²□t,ÉŽ©“®“I,É^Ú'²,µ,Ä□A^ê”Ô'½,ç%ò¹,ð't
%ò>fn(middle C),©,ç,ì,PfifNf^□[fu,É”z'u,µ,Ü,·□B

fh,ìCEÿ□of{f^f“

[fh,ìCEÿ□o]
f_fCfAf□fOf{fbfNfX,ÅŽ©•ª,ìfh,ðCEÿ□o,µ,Ü,·□BCEÿ□o,µ,½ff□[f^,í•Ú'¶,³
,ê,Ü,·□B^ê“xfZfbfg,µ,Ä,¨,¨,îŽY%òñ,ÉfZfbfg,µ,È,,Ä,·,Ý,Ü,·□B
□I,ª•İ,í,é,îft□[fU□[ff□[f^,à,©,ì,é,Ü,·□B,»„ì“s“x□Y'è,µ,Ä%ò²,³,ç□B



~^%ò¹f{f^f“
~^%ò¹f{f^f“,ðfNfŠfbfN,µ,Ä□A□u,ñ,Á,ñ,Á,ñ□[□v,Æ□ì<È,µ,Ä,ç
,é□f□fffB□[,ð•@%ò,Å%ò,Á,Ä%ò²,³,ç□i%ò,ç•ûŽQ□Æ□j□B
%ò,ç□I,í,Á,½,ç□A~^%ò¹'âŽ~f{f^f“,ðfNfŠfbfN,µ,Ä%ò²,³,ç□B~^
%ò¹,ª'âŽ~,µ,Ü,·□B
□Á'â~^%ò¹ŽŽŠÔ,í,P,U•b,Á,·□B



fff...fGfbfgf{f^f“
fff...
fGfbfgf{f^f“,ðfNfŠfbfN,·,é,Æ□A,R□C,Q□C,P□C,ìfjfEf“fgf_fEf“CEãf}fCfN
,ª•\Ž,³,ê,é,Æ%ò
%ò't,ªŠJŽn,³,ê,Ü,·□B<È,É□‡,í,¹,Ä□u,ñ,Á,ñ,Á,ñ□[□v,Æ□ì<È,µ,Ä,ç
,é□f□fffB□[,ð•@%ò,Å%ò,Á,Ä%ò²,³,ç□i
%ò,ç•ûŽQ□Æ□j□B“r't,ÅŽ~,ß,é,É,í□A~^%ò¹'âŽ~f{f^f“,ðfNfŠfbfN,µ,Ä
%ò²,³,ç□B

□Á'â~^%o1žžšô,í,p,u•b,â,•□B

fff...fGfbfg,·,é"í'í,ìžw'è

<èff□[f^ftf@fCf<,ìfff...fGfbfg,μ,½,ç"í'í,ðžw'è,μ,ÄfRfs□[μ,Ü,·

([•ò□W]□[fRfs□[fRf}f"fh) □BfRfs□[·,é"í'í,í,Q□-□β^Ê,ª,ç,ç,Æžv,ç,Ü,•□B

'□□jfRfs□[μ,Ä,È,ç,Æ,±,ì<@"ì,í,Â,©,ì,Ü,¹,ñ□B



~^%o1'âž~f{f^f"

~^%o1'âž~f{f^f",ðfNfšfbfN,·,é~^%o1,ª'âž~,μ,Ü,•□B~^

%o1,μ,½fff□[f^,ª"gÇ`•žì,³,è,é,Æ,Æ,à,É□A□ã'i,ì•^•\,É%o1•,,ª•\

žì,³,è,Ü,•□B,±,ì%o1•,,,í□A~^%o1,μ,½%o1□°ff□[f^,ì't,Â□A't%o>fn,ðšî□€

,É□ã,QfIfNf^□[fu□A%o°,RfIfNf^□[fu,ð•t%oÁ,μ,½,TfIfNf^□[fu,Â•\

žì,³,è,Ü,•□B•@%oì,ì"S□l,Â,í□A^è"ô'½,ç%o1,ð't%o>fn(middle C)

,©,ç,ì,PfIfNf^□[fu,É"z'u,·,é,æ,æ,É,μ,Ä,ç,Ü,•□B,TfIfNf^□[fu,ì"í'í,ð',ì,½

%o1,ì<□š"l,É,TfIfNf^□[fu,ì"í'í,É•â□³,μ,Ä,ç,Ü,•□B



žæ,è□Á,μf{f^f"

žæ,è□Á,μf{f^f",ðfNfšfbfN,·,é,Æft□[fU□[è<`%o1□°,ì•ï,è-

ú□i"',ì□c□ü□j,ìžw'è,ðžæ,è□Á,μ,Ü,•□B



□Ä•ïš·f{f^f"

□Ä•ïš·f{f^f",ðfNfšfbfN,·,é,Æft□[fU□[è<`%o1□°,ì•ï,è-ú□i"',ì□c□ü□j,Æf\

f"fo—š'¾'è<`%o1□°,ì•ï,è-ú□i□ô,ì□c□ü□j,Éšî,Ä,ç,Ä%o1□°"ü—

íff□[f^,ð□Ä•ïš·,μ,Ü,•□B



,PfIfNf^□[fu,t,□f{f^f"

,PfIfNf^□[fu,t,□f{f^f",ðfNfšfbfN,·,é,Æ•^•\,ì

%o1,ª,PfIfNf^□[fu□ã,ª,è,Ü,•□B



,PfIfNf^□[fu,c,□,—,žf{f^f"

,PfIfNf^□[fu,c,□,—,žf{f^f",ðfNfšfbfN,·,é,Æ•^•\,ì%o1,ª,PfIfNf^□[fu

%o°,ª,è,Ü,•□B

"~žž%o'tf`fFfbfNf{fbfNfX

Žw'è,μ,½"íí,ì<Èff[]f^,Æ%òì,©,çŒÿ[]o,μ,½<Èff[]f^,ì"-Žž%ò
%ò't,ìŽw'è,ð,μ,Û,·[]B



%ò%ò'tf{f^f"

%ò%ò'tf{f^f",ðfNfŠfbfN,·,é%ò%ò't,ð,μ,Û,·[]B

"-Žž%ò%ò'tf`fFfbfNf{fbfNfX,afif",É,È,Á,Ä,ç,é,Æ[]Afff...

fGfbfgf{f^f",ðŽg,ç<Èff[]f^,ª[]ì¬,³,è,½,Æ,«fRfs[][,³,è,½ff[]f^,Æ

%ò¹[]º"FŽ~,Á[]ì¬,³,è,½ff[]f^,ð"-Žž,É%ò%ò't,μ,Û,·[]B

"-Žž%ò%ò'tf`fFfbfNf{fbfNfX,afift,É,È,Á,Ä,ç,é,Æ[]A

%ò¹[]º"FŽ~,Á[]ì¬,³,è,½ff[]f^,ì,Ý%ò%ò't,μ,Û,·[]B



%ò%ò't'âž~f{f^f"

%ò%ò't'âž~f{f^f",ðfNfŠfbfN,·,é,Æ%ò%ò't,ð'âž~,μ,Û,·[]B

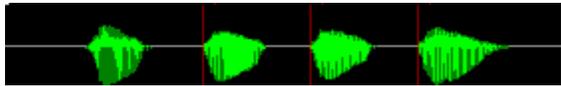
•@%òì,©,ç[]ì·^,³,è,½ff[]f^,í•@%òì,©,ç[]ì·^fEfBf"fh[][,É•\Ž!,³,è,Û,·[]B•@
%òì,©,ç[]ì·^fEfBf"fh[][,Á%ò¹•,,ì[]C[]³,ª,Á,«,Û,·[]B[]C[]³,ì,½,ß,É•K—v,É%òž,¶,Ä
%ò¹•,,f[]f[]Œ[]f[]b[]f[]g[]A[]f[]R[][]f[]h[]f[]p[]f[]Œ[]f[]b[]f[]g[],í•@%òì,ì"S[]l,ð<N"®,·,é'O,É•\Ž!,³,¹,Ä,¨,ç,Ä
%òº,³,ç[]B



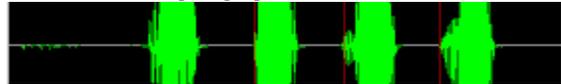
[%ò¹[]º"FŽ~,ì²[]®]f_fCfA[]fOf{fbfNfX

%ò,ç•û

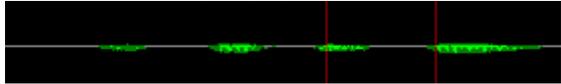
•@%ò,É,æ,é%ò¹□°,"ü—Í,É,Í□,µfRfc,^a, ,è,Û,·□B□o—
^,é,³/₄, □u,ñ,Á,ñ,Á,ñ□[□v,Æ<æ□Ø,è,ð"ü,ê,é,æ,π^ ÓŽ⁻,µ,Ä%ò,Á,Ä%ò^o,³,ç□B%ò%ò
%ò,ì,æ,π,ÉfRfufV,ð,Â, □, È,ç,Å□A'f'¹/₄,È□°,"Å□i□H□j"□°,"µ,Ä%ò^o,³,ç□B
ftfEf"fhfj□[fh•t'® ,ì,P,ÂCES,ìf}fCfN,ðŽg,π•û,Í□Af}fCfN,ðCEû,ì'O,É'u,©,È,ç,Å
%ò^o,³,ç□B'§,^aCES,©,ç"ü,Á,Ä%ò¹,^a~c,Ý□A%ò¹□°"FŽ⁻,ìCEëCEÿ□o,ìCE
'^ö,É,È,è,Û,·□Bf}fCfN,Í-j,â□A,ì•û,ÉCEü, □,ê,î'§,É,æ,é^ «%òe<¿,^a,È,-
,È,è,Û,·□B,Û,¹/₂ftfEf"fhfj□[fh•t'® ,ìf}fCfN,Ä%ò¹□°"FŽ⁻,^a•s'²,É,Æ,«,Í□Afj%òfP—
p,ìf}fCfN,Ä%òðCE^ ,·,é,±,Æ,^a, ,è,Û,·□B
"ü—ÍfCEfxf<,Í^È%ò,ðŽQ□l,É,µ,Ä%ò^o,³,ç□B



"K³,È"ü—ÍfCEfxf<



%òß'â,È"ü—ÍfCEfxf<



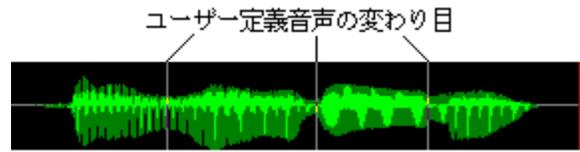
%òß□¬,È"ü—ÍfCEfxf<

fŠfyf€CE`Ž®'í%òž

ftf@fCf<CE`Ž®,^aØ¹/₂pÑ,ì□ê□#□Af}fCfN,ðŠ÷,ì□ã,É'u,«Š÷,ðfXfefBfbfN□i,Ä,È,,Ä,à
%ò¹/₂,Ä,à—Ç,ç□j,Ä'@, □,î•@%ò,ð%ò,í,È,,Ä,àff□[f^,^aŽæ"³/₄,Ä,«,Û,·□B,±,è,Í-É"',ç
,Ä,·□B,Û,é,ÄŠ÷,^afhf%òf€,É,È,Ä,¹/₂,æ,π,Ä,·□B

ft [fU ['è<` %o¹ [, ì•ï, è-Ú

u, ñ, Á, ñ, Á, ñ [[v, Æ < æ [Ø, è, ð " ü, ê, é, æ, x ^ Ó Ž ^ , μ, Ä • @ % o ì, ð % o ì, x
, ì, ^ < ê Ž è, È • ù, â [A Š y Š í, ì % o¹, ì " ü — í, μ, Ä, ç, é • ù, Å % o¹, ì • ï, í, è - Ú, ^ C E Ÿ [o, Å, «, È, ç
, Æ, « f } f E f X, ð Ž g, Á, Ä % o¹, ì • ï, í, è - Ú, ð, ç, ê, é, ±, Æ, ^, Å, «, Ü, · [B [i % o¹, ì • ï, í, è - Ú, ð, ç
, ê, é, ±, Æ, ^, Å, «, Æ, «, í [A f } f E f X f j [[f v < , ^ f i f C f t, ì C E ` , É • ï, í, Á, Ä, ç, ç, Ü, · [B [j
% o¹ [o , ì • ï, í, è - Ú, ì, Æ, ±, è, Æ C E ¾, Á, Ä, à [A, í, ©, ç, È, ç [l, É, í, Æ, Ä, à " i, μ, ç, ±, Æ, ì, æ, x
, É Ž v, í, ê, é, ©, à, μ, ê, Ü, ^, ñ [B, ±, ê, Í Š È ' P, É, í, ©, è, Ü, · [B — Í, Å • \ Ž | , ^, ê, Ä, ç, é • " • ^, ^, -
, Ñ, ê, Ä, ç, é, Æ, ±, è, ^ % o¹ [o , ì • ï, í, è - Ú, Å, · [B, » , ±, ð f } f E f X, Å f N f Š f b f N, μ, Ü, · [B
% o¹ [o f f [[f ^ , ì [Å [% o , © , ç f N f Š f b f N, μ, ½ ^ Ê ' u, Ü, Å % o¹ [o , ð [Ä [¶ , μ, Ü, · [B, ±, ê, Å
% o¹ [o , ì • ï, í, è - Ú, ì ^ Ê ' u, ^ [^ ³, μ, ç, © " » ' f, Å, «, Ü, · [B f N f Š f b f N, μ, ½, Æ, ±
, è, É [A " ' [F, ì [c [ü, ^, í, ç, è, Ü, · [B, ±, ê, ^ f t [[f U [[' è < ` , ì % o¹ [o , ì • ï, è -
Ú, Å, · [B [i [Ô [F, ì [c [ü, í f v " f o — Š ' ¾ ' è < ` , ì % o¹ [o , ì • ï, è - Ú, Å, · [B [j
f N f Š f b f N, μ, ½, ì, ^ Š Ô ^ á, ç, È, ç Ž æ, è [Á, μ f { f ^ f " , ð f N f Š f b f N, Ü, · [B
[Ä • ï Š · f { f ^ f " , ð f N f Š f b f N, ·, è, î [A % o¹ • , , , É [Ä • ï Š · , μ, Ü, · [B



•@%òì,©,ç□ì•^ fEfBf“fh□[

•@%òì,ì“S□l,Å•@%òì,©,ç□ì•^,³,ê,½ff□[f^,ð•\Žì,μ,Ü,·□B
%ò¹•,,,ì□C□³,²,Å,«,Ü,·□B□C□³,ì,½,ß,É
%ò¹•,,,f□f□E□f□b□f□g□AŠg'â•Ò□W□f□p□f□E□f□b□f□g,²Ž©“®“l,ÉE»»,ê,Ü,·□BŽŽ—
p,Å,«,é□f□p□f□E□f□b□f□g,í,±,ì,Q,Å,Å,·□B“í^í,ð,μ,Ä,·,é“™,à,Å,«,Ü,¹,ñ□B,±,ì,æ,κ,É•@
%òì,ì“S□l,Å,í•Ò□W<@“\,²EÀ'è,³,ê,Ä,ç,é,ì,Å□u'â'ì,±,ñ,È,à,ñ,©□l□v,Æ,ç,κŠ
' ,¶,ìff□[f^,É,È,Á,½,ç,n,jf{f^f“,ðfNfŠf□f□N,μ,Ä□³Ž® ,Èff□[f^,Æ,μ,Ä□C□³“™ ,ð,μ,Ä
%ò²,³,ç□B

ŽQ□Æ□F%ò¹•,,,ì“ü—í□E•Ò□W

[%¹□^o"FŽ⁻,ì²□[®]] f_fCfAf□fOf{fbfNfX

‘Êí,í%¹□^o"FŽ⁻,ì²□[®],đ,μ,È,,Ä,àf\“fO—Š^{3/4},í,α,Ü,"FŽ⁻,μ,Ä,,ê,Ü,·□B
f\“fO—Š^{3/4},^a,α,Ü,"FŽ⁻,μ,Ä,,ê,È,ç,Æ,«,í□A%^o□^o"FŽ⁻,ì□Y’è,đ•İ,ı,Ä,Ý,Ü,·□B

Ž©•^a,ìŽv,Á,Ä,ç,é%^o,æ,è,PflfNf^□[fu^È□ã□,,È,é□i’á,,È,é□j□ê□‡



f{f^f“,đfNfŠfbfN,μ,Ä□u,ñ□[□[□[□[□[□v,ÆŽ©•^a,Ä□o,¹,é^ê”Ô’á,ç□^o,đ□o,μ,È
,^a,çf}fCfNf{f^f“,đfNfŠfbfN,μ,Ü,·□B,P•bCEã,ÉŽü”g□”,^a•\
Žı,³,ê,Ü,·□BfsfAfmfEfBf“fh□[□ã,É□ÔŠÜ,ÁCEv’^a,μ,^{1/2}%^o,^a•\Žı,³,ê,Ü,·□B%^o^{1/2}
%^oñ,©“”,¹’²Žq,Á,â,Á,Ä,Ý,Ä%^o,³,ç□B“”,¹□^o,ì²Žq,Á,â,Á,Ä,ç
,é,É,à,©,©,í,ç,□A•\Žı,³,ê,^{1/2}CE<%^oÊ,^a,PflfNf^□[fu^È□ã,ì,İ,ç,Ä,«,^a, ,ê,İfsfAf
mfEfBf“fh□[□ã,Á²□[®],μ,Ü,·□B



fsfAfmfEfBf“fh□[□ã,Á,ì²□[®]
^ê”Ô’á,ç%^o,đ“o~^,μ,Ü,·□B
^ê”Ô’^{1/2},□ÔŠÜ,^a,Á,ç,^{1/2},Æ,±,è,đ, ,È,^{1/2},ì%^o¹^æ,ì^ê”Ô’á,ç%^o,Æ,μ,Ü,·□B
{bmp hlp\piarlt.bmp}f{f^f“,đ□¹<L,ì□ó’Ô,É,μ,Ä%^o,³,ç□B
^ê”Ô’á,ç%^o,ì,Æ,±,è,đ,©,çCE[®]”Ö,Á,P,Ä,©,Q,Ä□¹’α
,ìCE[®]”Ö,đfNfŠfbfN,μ,Ü,·□BfsfAfM,ìCE[®]”Ö□ã,É^ê”Ô’á,ç
%^o¹f}□[fN,^a•t,«□A,»¹,đ%^o^o’t,μ,Ü,·□BŽ©•^a,ì%^o¹,Æ□‡,Á,Ä,ç
,é,©Šm”F,μ,Ä,,^{3/4},³,ç□B,à,μ□‡,Á,Ä,ç,È, ,ê,ì□Ä“x^ê”Ô’á,ç%^o,đCE[®],Ä, ,Ä
%^o,³,ç□B
^ê”Ô’á,ç%^o¹f}□[fN ▶

ŽY,É^ê”Ô□,,ç%^o¹,đ“o~^,μ,Ü,·□B
{bmp hlp\piarrt.bmp}f{f^f“,đ□¹<L,ì□ó’Ô,É,μ,Ä%^o,³,ç□B
^ê”Ô□,,ç%^o¹,í’O□q,ì~^
%^o¹,ÁCE[®],Ä, ,é,©□AfsfAfM,ìCE[®]”Ö,đfNfŠfbfN,μ,ÄCE[®],Ä, ,é,ì,ç,ç,Á,à,©,Ü,ç
,Ü,¹,ñ□B
^ê”Ô□,,ç%^o¹,ì,Æ,±,è,đ,©,çCE[®]”Ö,Á,P,Ä,©,Q,Ä%^oE’α
,ìCE[®]”Ö,đfNfŠfbfN,μ,Ü,·□BfsfAfM,ìCE[®]”Ö□ã,É^ê”Ô□,,ç
%^o¹f}□[fN,^a•t,«□A,»¹,đ%^o^o’t,μ,Ü,·□BŽ©•^a,ì%^o¹,Æ□‡,Á,Ä,ç
,é,©Šm”F,μ,Ä,,^{3/4},³,ç□B,à,μ□‡,Á,Ä,ç,È, ,ê,ì□Ä“x^ê”Ô□,,ç%^o¹,đCE[®],Ä, ,Ä
%^o,³,ç□B
^ê”Ô□,,ç%^o¹f}□[fN ◀

%o¹•,,ì“ü—íE•òW

f}}fEfX,đŽg,Á,Ä%o¹•,,ì“ü—íE•òW,đ,·,é,±,Æ,^aÁ,«,Ü,·Bìí¬,μ,Ä,ç
,é<Èff[f^,ìC³,âA[Z%oì,È,Ç,ì,·,Á,É,Á,«,Ä,ç,é<È,đ'Á,žž,Þ,Æ,«,ÉŽg,ç,Ü,·B
'€ì,ÍfefLfxfgfGfffBf^,ì,æ,α,É'¼Š'“I,É,È,Á,Ä,ç
,Ü,·B,Ü,é,Á•¶í,ì•òW,đ,·,é,©,ì,æ,α,É'€ì,·,é,±,Æ,^aÁ,«,Ü,·B

fpfÆfbfg,đŽg,Á,Ä'€ì



%o¹•,,ì“ü—íE•òW



<x•,,ì“ü—íE•òW



•t“ ,ì“ü—íE•òW



fR[fh,ì“ü—íE•òW

fpf\Rf“ ,ìfL[f{[fh,đŽg,Á,Ä'€ì



□c□ü,ì“ü—íE•òW



%oü□s,ì“ü—íE•òW



,h,m,r



,a,r



,c,d,k

fpf\Rf“ ,ìfL[f{[fh,âf}}fEfX,đŽg,Á,Ä'€ì



f|fÆfbfg,ì^Ú“®



”í^í,đŽw'è,·,é

[fc][f<]|[%o¹„fpfŒfbfg] fRf}f“fh

%o¹„fpfŒfbfg, ì•\Ž|A”ñ•\Ž|, ð∅, è’Ö, |, Ü, ·BfpfŒfbfg, ^a•\Ž|, ³, ê, Ä, ç, é, Æ, «, ÍA, ±, ìfRf}f“fh^{-1/4}, ì%o; , Éf`fFbfNf}][fN, ^a•\Ž|, ³, ê, Ü, ·B

fVf#][fgf]fbfg

fc][f<fo[[:



ŽQÆF%o¹„fpfŒfbfg

[fc][f<]|[fR][fhfpf**Æ**fbfg] fRf}f“fh

fR[fhfpf**Æ**fbfg, ì•Ž!□A”ñ•\Ž|, ð□Ø, è‘Ö, |, Ü, ·□Bfpf**Æ**fbfg, ^a•\Ž|, ³, ê, Ä, ç, é, Æ, «, í□A, ±, ìfRf}f“fh^{-1/4}, ì%o; , Éf`fFfbfNf}□[fN, ^a•\Ž|, ³, ê, Ü, ·□B

fVf#□[fgf]fbfg

fc[f<fo□[:



ŽQ□**Æ**□**F**fR□[fhfpf**Æ**fbfg

[fc][f<]||[Šg'å•Ò[WfpfÆfbfg] fRf}f“fh

Šg'å•Ò[WfpfÆfbfg,ì•\Ž!A”ñ•\Ž!,đ∅,è'Ö,ı,Û,·BfpfÆfbfg,^a•\Ž!,³,ê,Ä,ç
,é,Æ,«,íA,±,ìfRf}f“fh^{-1/4},ì%ı,Éf`fFbfNf}][fN,^a•\Ž!,³,ê,Û,·B

fVf#][fgf]fbfg

fc][f<fo[[:



ŽQ[Æ[FŠg'å•Ò[WfpfÆfbfg

[fc][f<]||[CEø%oÊfpfCEfbfg] fRf}f“fh

CEø%oÊfpfCEfbfg, ì•\Ž!□A”ñ•\Ž!, ð□Ø, è‘Ö, ï, Û, ·□BfpfCEfbfg, ^a•\Ž!, ³, ê, Ä, ç, é, Æ, «, í□A, ±, ìfRf}f“fh^{-1/4}, ì%o; , Éf`fFfbfNf}□[fN, ^a•\Ž!, ³, ê, Û, ·□B

fVf#□[fgf]fbfg

fc□[f<fo□[:



ŽQ□Æ□FCEø%oÊfpfCEfbfg

[fc][f<]||[CE® "ÖfpfCEfbfg] fRf}f"fh

CE® "ÖfpfCEfbfg, ð•\Ž;A"ñ•\Ž;, ð∅, è'Ö, i, Ü, ·BfpfCEfbfg, ð•\Ž;, ð, ê, Ä, ç, é, Æ, «, íA, ±, ðfRf}f"fh-¼, ð%o; Éf`fFbfNf}][fN, ð•\Ž;, ð, ê, Ü, ·B

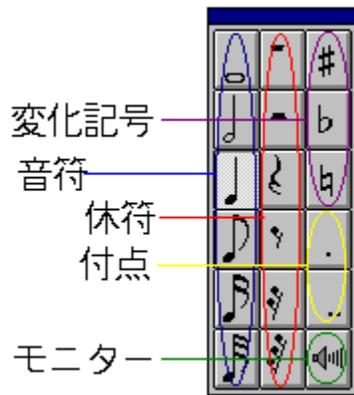
fVf#][fgf]fbfg

fc][f<fo[:



ŽQÆFCE® "ÖfpfCEfbfg

%o1• „fjpfCEfbfg



%o1• „f{f^f“

fjpfCEfbfg, ìÊ'u, a%o1• „, Å, ,ê, îAfNfŠfbfN, μ, ½%o1• „, É□', «Š·, |, ç, ê, Ü, ·□B
 fjpfCEfbfg^Ê'u, ðfNfŠfbfN, ·, é, ÆŽw'è, ³, ê, Ä, ç, é%o1• „, „ü—í, ³, ê, Ü, ·□B



<x• „f{f^f“

fjpfCEfbfg, ìÊ'u, ðAfNfŠfbfN, μ, ½<x• „, É□', «Š·, |, Ü, ·□B



•ï%o»<L□t{f^f“

•ï%o»<L□t, ìŽw'è, ð, μ, Ü, ·□B



•t“_f{f^f“

fjpfCEfbfg, ìÊ'u, a%o1• „, Ü, ½, í<x• „, Å, ,ê, îAfNfŠfbfN, μ, ½
 %o1• „, Ü, ½, í<x• „, É•t“_ , ð%oÁ, |, ½, è□í□œ, μ, ½, è, μ, Ü, ·□B



f.fjf^□[f{f^f“

f.fjf^□[f{f^f“, ðfj“, É, μ, Ä, „, Æff□[f^, ì'“ü, â'ù□³, ð, μ, ½, Æ, «%o%o't, μ, Ä
 %o1, ðŠm”F, ·, é, ±, Æ, a, Å, «, Ü, ·□B
 %o%o'tŠJŽn^Ê'u, í, ífjpfCEfbfg^Ê'u, æ, è'O, É□c□ü, a, ,ê, î□c□ü, ìŽÿ, ì
 %o1• „, ©, ç□A□c□ü, a, È, -, ê, î“-, ¶□s, ì□Å□%o, ìÊ'u, ©, ç, É, È, è, Ü, ·□B
 %o%o't□|—¹^Ê'u, í, ífjpfCEfbfg^Ê'u, æ, èÆä, É□c□ü, a, ,ê, î□c□ü, ì'O, ì
 %o1• „, Ü, Å□A□c□ü, a, È, -, ê, î“-, ¶□s, ì□Å□Æä, ìÊ'u, Ü, Å, É, È, è, Ü, ·□B
 %o1• „, ì□C□³, ð, ·, é, ì, É, Æ, Ä, à•Ö—~, Å, ·□B

ŽQ□Æ□FfR□[fhfjpfCEfbfg□ACE® ”ÖfjpfCEfbfg□AŠg'â•Ò□WfjpfCEfbfg

fR [fhfpfÆfbfg



Šm'èf{f^f"

Æ»□Ý,ìf{f^f",ì□ó'Ô,ÅŽw'è,μ,½fR□[fh,ðŠm'è,μ"ü—Í,μ,Ü,·□B
 Žw'è,μ,½"í^í,ª, ,é,î□AŽw'è,μ,½"í^í,ì
 %°¹•,.,,ð,.,x,ÄŠm'è,μ,½fR□[fh,Å'u,«Š,.,,Ü,·□BfŠfyf€,©,çfR□[fh,ðŠ,,,è"-
 ,Ä,é,Æ,«,â□AfR□[fhŠ,,,è"-,Ä,ì,â,è'¼,μ,ð,.,é□ê□‡,É•Ö—~ ,Å,·□B



□ª%°¹f{f^f"

,b□A□A□A,a,ì□ª%°¹,ð'ð^è,ÅŽw'è,μ,Ü,·□B



□\□¬%°¹f{f^f"

fR□[fh,ì□\□¬%°¹,ðŽw'è,μ,Ü,·□B□\□¬
 %°¹,ÍŽw'è,μ,É,ç□A,Ü,½,Í'ð^è"l,ÉŽw'è,μ,Ü,·□B"~,¶f{f^f",ð
 %°ÿ,.,Æf{f^f",ìfif"□Eflft,ªÆðÆÝ,ÉÆJ,è•Ô,³,è,Ü,·□B



•ï%°»<L□†f{f^f"

•ï%°»<L□†,ðŽw'è,μ,Ü,·□B•ï
 %°°»<L□†,ÍŽw'è,μ,É,ç□A,Ü,½,Í'ð^è"l,ÉŽw'è,μ,Ü,·□B"~,¶f{f^f",ð
 %°ÿ,.,Æf{f^f",ìfif"□Eflft,ªÆðÆÝ,ÉÆJ,è•Ô,³,è,Ü,·□B



"]°ñf{f^f"

~a%°¹,ì<Ê,É%°º-î^ó,ª□',ç,Ä, ,éf{f^f",ðfNfŠfbfN,.,é,Æ□
 %°Šú'l,ì<Ê,ì^Ê'u,É,.,,é^è"Ô□,.,ç<Ê,ª,PfIfNf^□[fu'á,,É,è,Ü,·□B,R~a%°¹,Å, ,
 é,ì,R%°ñ,±,ìf{f^f",ð%°ÿ,¹,î,PfIfNf^□[fu'á,,É,è,Ü,·□B,±
 ,ìf{f^f",ÍŠm'èf{f^f",ð%°ÿ,μ,½,Æ,«,É"ü—Í,³,è,éff□[f^,É"½
 %°f,³,è,Ü,·□B,b□C□C□C,a,ì□ª%°¹f{f^f",â,V□C□C□Cm7-5,ì□\□¬
 %°¹f{f^f",ðfNfŠfbfN,.,é,Æ□%°Šú'l,ì<Ê,ì^Ê'u,É,É,è,Ü,·□B
 ~a%°¹,ì<Ê,É□ã-î^ó,ª□',ç,Ä, ,éf{f^f",ðfNfŠfbfN,.,é,Æ□
 %°Šú'l,ì<Ê,ì^Ê'u,É,.,,é^è"Ô'á,ç<Ê,ª,PfIfNf^□[fu□,,,É,è,Ü,·□B,R~a%°¹,Å, ,
 é,ì,R%°ñ,±,ìf{f^f",ð%°ÿ,¹,î,PfIfNf^□[fu□,,,É,è,Ü,·□B,±

,lf{f^f",íŠm'èf{f^f",đ%Ÿ,μ,½,Æ,«,É"ü—í,³,ê,éff[f^,É"½
%of,³,ê,Û,·B,bC C C,a,ì²%¹f{f^f",â,V C C Cm7-5,ì\→
¹f{f^f",đfNfŠfbfN,·,é,Æ%Šú'l,ìkÊ,ì^Ê'u,É,È,è,Û,·B

ŽQÆF%¹„,fpfCEfbfgACE®"ŒfpfCEfbfgAŠg'â•ÒWfpfCEfbfg

Šg'á•ÒW fpfĀfbfg

f}fEfX,lfNfŠfbfN,É,æ,è%¹•,,,ìĀ,îĒ'u,đ•ÒW,μ,Û,·B
•ÒWf,[]fh,É%ž,Ŧ,Ä"ü—Í,·,é'O,ì•\Ž!A,n,jf{f^f",đfNfŠfbfN,μ,½Āã,ì\Ž!,íAŽŸ,ì,æ,α,É,È,è,Û,·B



ã' ,«,ì,Æ,«
@[]ffĀfbfg,îĒ'u,â%¹•,,,Å, ,ê,îA,» ,ì%¹•,,,đ•\Ž!,μ,Û,·B



'}“ü,ì,Æ,«
@[]@<ó” ,ì•\Ž!,É,È,è,Û,·B



[]f{f^f",lfNfŠfbfN
'P%¹,ì“ü—Í,É,È,è,Û,·B
fNfŠfbfN,·,é'O,ìĀ,í,·,×,Ä[]ÁŽ,³,êfNfŠfbfN,μ,½Ē'u,É,ì,ÝĀ,â•\Ž!,³,ê,Û,·B



%Ef{f^f",lfNfŠfbfN
~a%¹,ì“ü—Í,É,È,è,Û,·B
fNfŠfbfN,μ,½Ē'u,ÉĀ,È, -,ê,î,» ,îĒ'u,ÉĀ,âÇ%Á,³,ê,Û,·B
fNfŠfbfN,μ,½Ē'u,ÉĀ,ê,î,» ,îĒ'u,ÉĀ,â[]ÁŽ,³,ê,Û,·B[]iĀ,â,P,Â,μ,©•\Ž!,³,ê,Ä,È,ĉ,Æ,« ,íĀ,í[]ÁŽ,³,ê,Û,¹,ñ[]B[]j

,n,jf{f^f",đfNfŠfbfN,·,ê,î•ÒW,μ,½%¹•,,,â—LĀø,É,È,è,Û,·B

ŽQ[]Æ[]F%¹•,,,fpfĀfbfg[]AfR[][]fhfpfĀfbfg[]AĀ®"ŎfpfĀfbfg

☪ø%oÊ fpf☪fbfg

☐@fj☪fbfg^Ê'u,ì%o¹•,,,É,¨,¯,é☪ø%oÊ,ì☐Ý'è'l,ª,·,×,Ä•\Ž|,³,ê,Û,·☐B
☐@fŠfYf€☪`Ž®ftf@fCf<,ì☐ê☐☐A%o¹•,,,ì^Ê'u,ªŠyŠí,đ•\,µ,Ä,ç,Ä'¼Š´“l,Å,í, ,è,Û,¹,
ň☐B%o%o't,µ,Ä,ç,éŠyŠí,đ'm,è,½,ç,Æ,«-Ú“l,ì%o¹•,,,đfNfŠfbfN,µ,Ä
%oº,³,ç☐BfŠfYf€ŠyŠí,ª•\Ž|,³,ê,Û,·☐B

fVf†☐[fgfjfbfg

fc☐[f<fo☐[:



œ®”ö fpfœfbfg

fsfAfm,ìœ®”ö,đf}fEfX,ÅfNfŠfbfN,·,é,±,Æ,É,æ,è%¹•,,ì<Ê,ì^Ê'u,đ•ò□W,μ,Û,·□B
•ò□Wf,□[fh,É%ž,¶,Ä“ü—í,·,é'ò,ì•\Ž!□A,n,jf{f^f“,đfNfŠfbfN,μ,½œã,ì•\
Ž!,í□AZÿ,ì,æ,α,É,È,è,Û,·□B



□ã□',«,ì,Æ,«
□@□@fjfcfbfg^Ê'u,ì%¹,^aœ®”ö□ã,É□ô,çšÛ,Å•\Ž!,μ,Û,·□B



'}“ü,ì,Æ,«
□@□@<ó”“,ì•\Ž!,É,È,è,Û,·□B



□¶f{f^f“,ìfNfŠfbfN
'P%¹,ì“ü—í,É,È,è,Û,·□B
fNfŠfbfN,·,é'ò,ì□ô,çšÛ,í,·,x,Ä□Á<Ž,³,êfNfŠfbfN,μ,½^Ê'u,É,ì,Ý□ô,çšÛ,^a•\
Ž!,³,ê,Û,·□B



%œf{f^f“,ìfNfŠfbfN
~^a%¹,ì“ü—í,É,È,è,Û,·□B
fNfŠfbfN,μ,½^Ê'u,É□ô,çšÛ,^a,È,¯,ê,î,»,ì^Ê'u,É□ô,çšÛ,^aç%Á,³,ê,Û,·□B
fNfŠfbfN,μ,½^Ê'u,É□ô,çšÛ,^a,ê,î,»,ì^Ê'u,É□ô,çšÛ,^a□Á<Ž,³,ê,Û,·□B□i□ô,çšÛ,^a,P,
Â,μ,©•\Ž!,³,ê,Ä,È,ç,Æ,«,í□A□ô,çšÛ,í□Á<Ž,³,ê,Û,¹,ñ□B□j

,n,jf{f^f“,đfNfŠfbfN,·,é,î•ò□W,μ,½ff□[f^,^a—Lœø,É,È,è,Û,·□B

ŽQ□Æ□F%¹•,,fpfcfbfg□AfR□[fhfpfcfbfg□Ašg'â•ò□Wfpfcfbfg

%o¹•,,ì“ü—íE•òW



%o¹•,,đ•ïX,·,é

ã‘f,[]fh,ì,Æ,«[]Af]f[]Efbfg,ì^Ê‘u,ª%o¹•,,Å, ,ê,î%o¹•,,f[]Efbfg,ì
%o¹•,,f{f^f“,đfNfŠfbfN,μ,Û,·[]B



<Ê,ì^Ê‘u,đ•ïX,·,é^%o¹•,,đ’}“ü,·,é

Šg‘å•òWf[]Efbfg,Û,½,í[]E®“Õf[]Efbfg,Å•òW,đ,“,±,È,ç,Û,·[]B



•t“_đ•ïX,·,é

•t“_ì“ü—íE•òW,Å,“,±,È,ç,Û,·[]B

ŽQ[]Æ[]F[]f[]c[]f[]<[]-[]%o¹•,,f[]Efbfg][]A[]f[]c[]f[]<[]-[]Šg‘å•òWf[]Efbfg][]A[]f[]c[]f[]<[]-[]
[]E®“Õf[]Efbfg]

<x•,,)“ü—íE•ÒW



<x•,,)“ü—í

%¹•,,fƒŒfbfg,ì<x•,,f{f^f“,đfNfŠfbfN,μ,Ü,·BjƒŒfbfg^Ê'u,É<x•,,a“ü—
í,³,ê,Ü,·B



•t“_đ•īX,·,é

•t“_đ•īX,·,é

ŽQÆF%¹•,,fƒŒfbfgA[fc[f<]-[%¹•,,fƒŒfbfg]A[fc[f<]-
[Šg'â•ÒWfƒŒfbfg]A[fc[f<]-[Œ®"ŌfƒŒfbfg]

•t“_ ,ì“ü—í□E•Ò□W



•t“_ ,â,Ä,ç,Ä,ç,È,ç%°¹•„,â<x•„,É•t“_ ,ð,Â,¯,é
%°¹•„,fpfCEfbfg,ì•t“_ ,Ü,½,í•j•t“_ f{f^f“ ,ðfNfŠfbfN,·,ê,î•t“_ ,â•t
%°Á,³,ê,Ü,·□B,Ü,½□A%°¹•„,fpfCEfbfg,ì•t“_ ,Ü,½,í•j•t“_ f{f^f“ ,í%°ÿ,³,ê,½•\
Ž!,É,È,è,Ü,·□B



•t“_ ,â,Ä,ç,Ä,ç,é%°¹•„,â<x•„,©,ç•t“_ ,ðí□œ,·,é
%°¹•„,fpfCEfbfg,ì•t“_ ,Ü,½,í•j•t“_ f{f^f“ ,°%°ÿ,³,ê,½•\Ž!,É,È,Á,Ä,ç,Ü,·□B,±
,ìf{f^f“ ,ðfNfŠfbfN,·,ê,î•t“_ ,â%°ð□œ,³,ê,Ü,·□B,Ü,½□A
%°¹•„,fpfCEfbfg,ì•t“_ ,Ü,½,í•j•t“_ f{f^f“ ,í’Êí,ì•\Ž!,É-ß,è,Ü,·□B
ŽQ□Æ□F%°¹•„,fpfCEfbfg□A[fc□[f<]-[°°¹•„,fpfCEfbfg]

fR[fh,ì“ü—íE•ÒW

fR[fh,đ“ü—í,.,é,É,ÍŽŸ,ì,Q,Æ,“,è, ,è,Ü,·B



fR[fhfpfÆfbfg, ©,ç^ê”,ÅŠó-],lfR[fh,đ“ü—í,.,éB

,±,ìê#fR[fhfpfÆfbfg,đ•Ž!,^{3,1},Ä,ç,é•K—v,^a, ,è,Ü,·B•Ž!E”ñ•Ž!,í[f<][f<]
[fR[fhfpfÆfbfg],Å,“,±,È,ç,Ü,·B



%¹•„•ÒW fEfbf“fh[

—á,|,î,b,lfR[fh[i,R~a%¹]j,ì,Q%¹,^{3/4},-Žg,ç,^{1/2},çê#È,Ç%¹,ì•t

%Á,âíœ,đ,μ,^{1/2},çê#ÅŠg’å•ÒWfEfbfg,Ü,^{1/2},íE®”ŎfEfbfg,Å•ÒW,đ,
đ,“,±,È,ç,Ü,·B

ŽQÆF%¹•„,fpEfbfgA[f<][f<]-[%¹•„,fpEfbfg]A[f<][f<]-
[Šg’å•ÒWfEfbfg]A[f<][f<]-[E®”ŎfEfbfg]

□c□ü,ì“ü—í□E•Ò□W

,s,` ,afL□[,Å“ü—í,μ,Ü,·□B□c□ü,ð□Á,·,É,Í,a,rfl□[□A,c,d,kfl□[,Å,¨,±,È,φ,Ü,·□B

%ü□s,ì“ü—í□E•Ò□W

fŠf^□[f“fL□□i,Ü,½,ífpf\frf“,É,æ,Á,Ä,íENTER fL□□j,Å“ü—í,μ,Ü,·□B
%ü□s,ð□Á,·,É,Í,a,rfl□□A,c,d,kfl□[,Å,“,±,È,ç,Ü,·□B

'□□F•@%ò,ì“S□l,É,“,·,é•@%ò,©,ç□ì•^ fEfBf“fh□[,Å,í-³Eø,Å,·□B

,h,m,r

'}“üf,[]fh[]A[]ã[]f,[]fh,ð[]Ø,è‘Ö,|,Ü,·[]B
[]ã[]f,[]fh,ì,Æ,«,í[]AfXfe[]f^fXfo[],É[]ã[]‘,Æ•\Ž!,³,ê,Ü,·[]B’}“üf,[]fh,ì,Æ,«,í<ó””•\
Ž!,É,È,è,Ü,·[]B

ŽQ[]Æ[]F[]fXfe[]f^fXfo[][]

,a,r

fj f E f b f g , ì ' O , ì f f [f ^ , ð í [œ , µ , Ü , · [B

,c,d,k

fjſŒfbfg,î^Ê'u,ì,ìff□[f^,ð□í□œ,μ,Û,·□B"í^í,aŽw'è,³,ê,Ä,ç
,é,Æ□AŽw'è,μ,½"í^í,ìff□[f^,ð□í□œ,μ,Û,·□B

fjfĀfbfg,ì^Ú“®

fjfĀfbfg,Íf[]f[]v[]f[],âfefLfXfgfGffffBf^“™,ìfjfĀfbfg,Æ“~,¶,Å,·B•ÒW^îÚ,ìff[]f^,ì
^Ê'u,ð[]c[]ü,ì“_Å,Å•\Ž!,μ,Ä,ç,Û,·BfjfĀfbfg,ì^Ú“®,ÍŽŸ,ì,Q,Æ,“,è,è,Û,·B



f}fEfXŽg,Á,Ä^Ú“®,·,é

fjfĀfbfg,ð^Ú“®,·,é,É,ÍA^Ú“®,μ,½,ç^Ê'u,Éf}fEfXfj[]f\

f<,ð^Ú“®,μ,ÄfNfŠfbfN,μ,Û,·B



fL[]f{[]fhŽg,Á,Ä^Ú“®,·,é

[]A[]©[]A[]ª[]A[]«[]AfL[],ðŽg,Á,Ä[]ã%°[]¶%°E,ÉfjfĀfbfg,ð^Ú“®,·,é,±

,Æ,ª,Å,«,Û,·B

fjfĀfbfg^Ê'u,ª%½[]s-Ú,©[]A%½[]¬[]ß-Ú,©,ífXfe[]f^fXfo[],É•\Ž!,³,è,Û,·B
ŽQ[]Æ[]F[]fXfe[]f^fXfo[]]

"ÍÍ,đŽw'è,·,é

"ÍÍ,đŽw'è,·,é,Æ□AŽw'è,³,ê,½"ÍÍ,ª"½"]·\Ž|,É,È,è,Ü,·□B
"ÍÍ,ìŽw'è,ìŽŸ,ì,Q,Æ,¨,è, ,è,Ü,·□B



f}}fEfXŽg,Á,Ä^Ú"® ,·,é

,P□jŽw'è,μ,½,ç"ÍÍ,ìŠJŽn^Ê'u,Åf}}fEfX,ì□¶f{f^f",đ%Ÿ,·□B

,Q□j}fEfX,ì□¶f{f^f",đ—£,³,È,ç,ÅŽw'è,μ,½,ç"ÍÍ,ì□|—¹^Ê'u,Ü,Åf}}fEfXfj□[f\ f<,đ^Ú"® ,·,é□B

,R□j}fEfX,ì□¶f{f^f",đ—£,·□B

,Q□j,ì□ó'Ô,Åf}}fEfXfj□[f\

f<,đEfBf"fh□[,ìŠO,É^Ú"® ,·,é,Æ□AŽw'è,μ,½"ÍÍ,ìŽ©"® "I,É^Ú"® ,μ,Ü,·□B-

Ú"Í,ì^Ê'u,É,È,Á,½,çf}}fEfXfj□[f\ f<,đEfBf"fh□["à,É^Ú"® ,μ,Ä%º,³,ç□B



fL□[f{□[fhŽg,Á,Ä^Ú"® ,·,é

SHIFTfL□[,đ%Ÿ,μ,È,ª,ç□A□"□A□©□A□ª□A□<□AfL□[,đŽg,Á,Ä"ÍÍ,đŽw'è,μ,Ü,·□B

Žw'è,μ,½"ÍÍ,đ%đ□œ,·,é•û-@,Í□A

□EjffCEfbfg,ì^Ê'u,đ^Ú"® ,·,é

□E[·\Ž!]-["ÍÍŽw'è%đ□œ]

,Å,·□B

Žw'è,μ,½"ÍÍ,ìŠJŽn^Ê'u,ÆCE»□Y^Ê'u,ª%½□s-Ú,©□A%½□¬□ß-

Ú,©,ífXfe□[f^fXfo□[,É•\Ž|,³,ê,Ü,·□B

ŽQ□Æ□F[fXfe□[f^fXfo□[]

f~fLfT[] fEfBf“fh[]

1

fNfŠfbfN,·,é,Æfgf%fbfN,ÉY'è,³,ê,Ä,ç,éftf@fCf<,ðŠJ,«,Ü,·B



<Èff[]f^,ì%¹—Ê,ð·\Ž!,μ,Ü,·B·\Ž!,ðŽ~,ß,é,±,Æ,à,Å,«,Ü,·B[%%'t] []
[fCfxf<f[]f^]fRf}f“fh



f{f^f“,ðfNfŠfbfN,·,é,Æ[]Ô,ì·\Ž!,əfif“[]Eflft,μ,Ü,·Bfif“,ì·\Ž!,ì,Æ,«,ífXf
%fCfhf{fŠf...[]f€,Åfpf“f|fbfg,ð·ïX,Å,«,Ü,·Bfift,ì,Æ,«,í<Èff[]f^,lfpf“f|
fbfg,Å%%'t,μ,Ü,·B



f{f^f“,ðfNfŠfbfN,·,é,Æ[]Ô,ì·\Ž!,əfif“[]Eflft,μ,Ü,·Bfif“,ì·\Ž!,ì,Æ,«,ífXf
%fCfhf{fŠf...[]f€,ÅfR[]f%ofX,ð·ïX,Å,«,Ü,·Bfift,ì,Æ,«,í<Èff[]f^,lfR[]f
%ofX,Å%%'t,μ,Ü,·B



f{f^f“,ðfNfŠfbfN,·,é,Æ[]Ô,ì·\Ž!,əfif“[]Eflft,μ,Ü,·Bfif“,ì·\Ž!,ì,Æ,«,ífXf
%fCfhf{fŠf...[]f€,ÅfŠfo[]fu,ð·ïX,Å,«,Ü,·Bfift,ì,Æ,«,í<Èff[]f^,lfŠfo[]fu,Å
%%'t,μ,Ü,·B



f{f^f“,ðfNfŠfbfN,·,é,Æ%©[]F,ì·\Ž!,əfif“[]Eflft,μ,Ü,·Bfif“,ì·\Ž!,ì,Æ,«,íŠY“-
,lfgf%fbfN,ì,Ý,ð%%'t,μ,Ü,·Bfift,ì,Æ,«,í'Sfgf%fbfN,ð%%'t,μ,Ü,·B



f{f^f“,ðfNfŠfbfN,·,é,Æ—î,ì·\Ž!,əfif“[]Eflft,μ,Ü,·Bfif“,ì·\Ž!,ì,Æ,«,íŠY“-
,lfgf%fbfN,ð[]Á%¹,μ,Ü,·Bfift,ì,Æ,«,í[]Á%¹,μ,Ü,¹,ñ[]B



f{f^f“,ðfNfŠfbfN,·,é,Æ[]Ô,ì·\Ž!,əfif“[]Eflft,μ,Ü,·Bfif“,ì·\Ž!,ì,Æ,«,ífXf
%fCfhf{fŠf...[]f€,Å%¹—Ê,ð·ïX,Å,«,Ü,·Bfift,ì,Æ,«,í<Èff[]f^,ì%¹—Ê,Å%
%'t,μ,Ü,·B

