

NifTerm  $f_w f_v - \dot{U} \dot{Z} \dot{Y}$

























fjftfefBffu,ÉfAfNfZfX,μ,Ü,•B

f f f f “ f f A f N f Z f X f f j f f , Ì [ f A f N f Z f X f R f f “ f h • j , Å • s , ç , Ÿ f ( B f ) É , æ , é - 3 • l f A f N f Z f X

“Ç, ÝŽæ, Á, f f f B f N f < , ð E © , Ü , • B

f f f f “ , ð % Ñ Š , f f f N % , é i Ö Å f f [ • < ] f L •

[ , ð % Ÿ , • j , Æ • A % ö i < Č ° f E f B f “ f h f E • A f % f C f u f % f Š f E f B f “ f h f E , È , Ç é Š B , K N , Ö E , Č æ , è , Æ f , Å f A Ü , • B

NifTerm , Á , Í • A • , % ö ñ ' † , Á , à • A “ Ç , Ý Ž æ , è , Ì f , % f E , Ç , f f A “ à — e , ð E © , é , ± , Æ , a , Á , « , Ü , • B

— ñ , ð , μ , Ü , • B

$f^{(j)}$

$f^{(j)}$

~~FIG. 1.  $f^{(j)}$  vs  $x$  for  $j=0,1,2,3,4,5,6,7,8,9,10$~~   
a—Ê, É, , é•é•‡, Í

ŽŸ, Ì, Æ, B, N, f, s}

, ð, ~, p, ·, é, Æ, Ž, è, ·, -“Ç, B, Ü, ·B

f, f, f, Ì, Æ, Ì, Æ, Ž, è, ·, -“Ç, B, Ü, ·B

fA†fefBfNf<



•u<N“@ŽžfpfXf•ü—Í•v,đ•Ý`è,μ,Ä,ç,é,Æ<N“@’¼Eã,İŽ©“@fAfNfZfX,Í,Å,«,Ü,¹,ñ,Ì,Å,²’•^Ó,-,¾,³,ç•B  
—á•F

fpfX-¼,É”¼ŠpfXfX,đŠÜ,Đ•é•‡,Í•AfpfX-¼gSh(š¼Špf\_fufNfHf•fVf‡f•fN)Å^Í,ñ,Å,-,¾,³,ç•B























[f^fif<Rff\*f(f@fCffj)f)..•



















ftf@fCf<-1/4,É“Éè•i•Ššp•||žš,Æ”1/4ŠpfJfi•j,đšÜ,Đftf@fCf<,đ“Y•t,μ,Ä,fffg,É,œ,ŠžÈ)fftf@fCf<-1/4,ª•³,μ,-\ Ži,ª,è,Ü,¹,ñ•B“ú{CEè,đšÜ,Đftf@fCf<-1/4,Í”1/4Šp%op•”Žš,ÍE4i,Ö,š,ŸY•t,μ,½,Û,ª,ª,ç,ç,Ä,μ,â,ª•B

MIME,Åftf@fCf<,đ“Y•t,μ,½•è•‡,Í•ŠCEÆ“™,É

“Y•tftf@fCf<,ÍfjftfefB,ÖfAfnfZfX,.,éžž,ÉfefLfxfg,Æ•‡,í,¹,Ä‘—•M,ª,è,Ü,•B“Y•t,.,é,æ,ª,Éžw`è,μ,½ftf@fCf<,Í•AfA [fh,ª•I,í,é,Ü,Ä,»„İ•è•Š,É`u,ç,½,Û,Û,É,μ,Ä,“,ç,Ä,-,¾,ª,ç•B

•ªŠ,,

‘ŠžÈ,Ìff•fftfg,ª•ªŠ,ff•,É`Í%ož,μ,Ä,ç,È,ç•è•‡•A•ªŠ,,,μ,Ä‘—,é,Æ‘ŠžÈ‘ª,Åf•• [f<,đ“C,ª,B,Û,¹,ñ•B•K—v,ª, ,é•è•‡`ÈŠÖ,Í•ªŠ,,,μ,È,ç,æ,ª,É,μ,½,Û,ª,ª,ç,ç,Ä,μ,â,ª•B

[“Y•tftf@fCf<Žæ,è\_ofQfAf•fCbfNfX

•uŠJ,-•v,Íftf@fCf<,ðE©,é,½,B,¾,-,Ì-Ú“Í,ÉŽg—p,µ,Ä,-,¾,³,ç•Bftf@fCf<,ð%Á•H,µ,½,ç•ê•‡,Í-¼‘O,ð,Â,-,Ä•Û‘¶,µ,½, ,Æ  
[fVf‡f“,ð<N“@,µ,Ä,-,¾,³,ç•B

[“Y•tft@fCf•fRf]“fLftf@fCffifjD)..•





’•ó

%oicZ°•Á½,İ^—•,àL~^  
³,ê,Û,¹,ñ•BfzfXfg˘ı,İ%oicZ°•a•Á½,³,ê,½,½,β,»„ê,É•‡,ı,ı,Ä,P˘ä,İNifTerm,Á%oicZ°•Á½,ð•s,Á,Ä,©,ç“Ç,ÝŽæ,è,ð•s,Á,½•ê•  
[fefBfNf<,ðŽæ,èž,β,È,©,Á,½,è•A•V[çfBfçf,İ•A•,è•‡,Á,½,è,μ,Û,•B

•u•u,Q˘ä,ÁNifTerm•v—p,İf•fO,ð•ı•¬,˘,é•v,af fFfbfN,³,ê,Ä,ç,é,Æ,«,İ•AfA/N/Ä/Z/SNEWEOUT  
ftf@fCf<,É,Ç,ñ,Ç,ñ˘C%oA,³,ê,Ä,ç,«„Û,•B¼,İfpf\  
fRf“„ÖÛ“@,˘,é,½,β,É<z,ç•ä,°,½, ,Æ,İ•A,±,İftf@fCf<,ð•Á,μ,Ä,˘,ç,Ä,-,¾,³,ç•BŽc,μ,Ä,˘,-,ÆŽY%oñ,İfAfnfZfXç%oÉ,ª,±,

fAfnfZfX“àWHÄTSNEW.OUT ftf@fCf<,É˘C%oA,³,ê,Û,˘,İ,Ä•A,P˘ä,İfpf\  
fRf“„Ä~A˘±,μ,½fAfnfZfX,ð•s,ı•ê•‡,İ•A;•”%oñ,İfAfnfZfX,ð•s,Á,Ä,©,ç<z,ç•ä,°,Ä,à˘•ä•v,Ä,•B,Q˘ä,İfpf\  
fRf“„ÄCEðEY,ÉfAfnfZfX,ð•s,ı•ê•‡,İ•AfAfnfZfX,ð•s,ı•O,É˘O%oñ•ª,İf•fO,ðŽæ,èž,ñ,Ä,-,¾,³,ç•BfAfnfZfX,ð•s,Á,Ä,©  
[f<,È,Ç,ªŽž•••‡,É,È,è,Û,¹,ñ•B

[feLXfgftf@fRfh•İŞ•JRff“f[ftf@fCffjfd)..•  
[feLXfgftf@fRfh•İŞ•f\_CfAf•fCbNfX

feLXfgftf@fCf<^ÈŠO

•³,µ,-,È,çŠiŽfRi•İŞ•,ðŽw'è,.,é,Æ•A,»,İftf@fCf<,İ'†•g,“j%ó,³,ê,Û,

%ü•sfR•İŞ•,İ,µ,-,Ý

fIf“f%ofCf““†,Íf“İfİŽg—p,Å,«,Û,¹,ñ•B

ft@fCf\_fCfAf•fGbfNfX



























fVfFfAfeFfA'—ñà³;â,Ä,ç,é,Æ,«,Í,ĀfNfZfXfRfj'fh,ÅfNfZfX,μ,æ,ϖ,Æ,·,é,ÆšfWE;ìf•fbfZ•  
Žl,³,ê,Û,•BŠÔ^á,!,Ä'—à,μ,Ä,μ,Û,ϖ,ÆŽæ,è•Ô,μ,ª,Ä,«,Û,¹,ñ,Ì,Ä•A“ñ•d'—à,È,Ç,Ì,È,ç,æ,ϖ•Ä'x

^À'SŠm•Û,Ì,½,β•AfvfFfAfeFfA'Ä'—ñfAfnfZfXfRfj,É,æ,éfvNfZfX•Afrf}  
f'fhf%ofCf'É,æ,éN'©Žžž©'©fAfnfZfX•j,Ì•è•‡,ÍŽÀ•s,³,ê,Û,¹,ñ•iŽ©'©'I,É^èŽž•Û—,É,È,è,Û,•j•BfvfFfAfeFfA'—

[ðŽç,ÄfZ,ñ,ÄfA'fNfZfN,ñZ,Ä,Æfj,Ë]•bB

fVfFfAfeFfA'—à'ã•sfVfXfef€;ð—~—p,Ä,«,é,©,Ç,ϖ,©,Í,È,½,ÆfjftfefB,Æ,ÌE\_—ñ,É,æ,è,Û,·

NifTerm ,Ö,Ì,²'—à,Ì'Ö,É,Í•A•K,•A







$fL\{f\} \bullet [fh:$  [Ctrl]+[X]

[fRf\$] fRf"fk(•Ò•wF•fj)f..•

fL{f•{fh: [Ctrl]+[C]

[“\èt, ] fRff“fh(•Ò•Wf•fj)f)..•

fLff•{fh: [Ctrl]+[V]

[•i•œfRff“fk[•Ò•Wf•fjD)..•



[fIvfVf+ff]f,Ì[•à' f[f<]- [t,•fEfbf[h]fRff“fh









•D,Ü,μ,ϕ•®CE`CE.%oÊ,ð“¾,é,É,Í

Ž©“®•®CE`ÍfeL,É,É,à“-«,Ü,•B••,ì•L,çfeL,çX,fgç•¶. ÍŽ©“®•®CE`ðlft,É;μ,ÄÄ©,¾¾\³,ϕ•B



{fRfj“fh,Í½”,ÌfA•BfNf<ðêŠ†•İ•X,•,é,½,ß,Ì,à,Ì,Å,•Bf•fjBfNf<É,Â,•fNj•İ•X,μ,½,ç•ê•†,Í•Af}  
[fN,ð'¼•Ú•¶fNfŠfbfN,μ,Ä,-,¾,³,ç•B  
[f]fN,Ì•İ•Xf\_fCfAf•fQbfNfX

•@-ç“Ç

•@Šù“Ç

•V·KfAfeFBfNf<,đ•|fN

•@•V·KfAfeFBfNf<

•@•V·KfAfeFBfNf<,Å,Í,È,ç

•Eÿ•õE,ç%ÉfN\

•@Eÿ•õ,Åfqfbfg,lfçFBfNf<

•@Eÿ•õ,Åfqfbfg,µ,È[Eç,ÁB]fNf•

f^fFfbfN,đ•|fN

•@f^fFfbfN,³,ê,½fAfeFBfNf<

•@f^fFfbfN,³,ê,Ä,ç,È,çfçBfNf<

•Û‘¶è•A•í•æè,đ•,f|fN

•@•Û‘¶è,ÌfAfeFBfNf<,Å,•B

•@•í•æè,ÌfAfeFBfNf<,Å,•B

“à—e,Ì—L,ç|fN

•@“à—e,Ì,ç|fAfeFBfNf<,Å,•B

•@f^Cfçfç,¾, -,ÌfAfeFBfNf<,Å,•B

•@‘—Mfç,Å,•B

f|fN,Ì,Å,ç,½fAfeFBfNf<,đŽÿ•X,Æfuf%ofEfY,·,é

[•Ò•Wf•fj,l,ì[f]•[fN,³,ê,½fA•[fefBfNf<,ð'fBff]“fh,ðŽg—p,·,é,Æ•A•[ÁN,Ì,Â,ç,½•A,Ü,½,Í,Â,ç,Ä,È,çfA•  
[fefBfNf<,ð^êŠ‡,μ,Ä'Í'ð,·,é,±,Æ,ª,Á,«,Ü,•B



$[f]_{\mathcal{N}, 3, \hat{\epsilon}, 1/2fA} [f_{\mathcal{B}\mathcal{N}f}, \delta]_{\mathcal{B}\mathcal{F}f} [f]_{\mathcal{O}\mathcal{W}\mathcal{F}f} \dots$







f f f " i ž Ÿ , ì f f f B f N f f f f f " f h • j , Å f q f b f g , u l f f f B f N f < , ð , Ð , Æ , Ž , Ā , Ę , Æ , ª , Å , « , Ü , • B

[ • ¶ ž š — ñ Ç Ÿ f Ç ] f A f • f f b f N f X

ž Ÿ , ì , æ , ŋ , È • ê • † , Í Ç © , Â , ¯ , é , ± , Æ , ª , Å , « , Ü , ¹ , ñ • B

• Ð , Æ , Ā , ì • ¶ ž š , Ì Ő , É % ö ù f s , A f X y ö • † • B — á • F • u Ê ß • v , Ì • u Ê • v , Æ • u ß • v , Ì Ő , É % ö ü • s , ª , é • ê • † • j

• ¶ ž š — ñ , Ì Ő , É % ö ù f s , X F Ő , ì • ¶ ž š , ª , ² , Ü , Ā , Ā , ç , é • ê • † • i — á • F ^ ø — p • ª , Ā • Ā ^ ø — p • , • † , ª Ő Ő , Ü , ê , é • ê • † • j • B

• ð Ç •

• V , ½ , É Ç Ÿ • ö



fctf<fQ;Í•AfAvfšffP•f†fEfbf“fhfE•ã•”,Á•Afffjff:;@%°žÉ,ê,Ü,•B,±,±,ÉšÜ,Ü,ê{ff,ðf}  
fEfX,ÁfNfšfbfN,μ,Á•€•i,μ,Ü,•B

fctf<fQ;ìžì,Æ”ñžì,ð•Ø,è•Ö,!,é,É[ížì] f•fjff,ì[fctf<fQ] fRff“fh,ð•T•ð,μ,Ü,•B

[flfvfVf†ff•ffif,ì[fctf<fQ] fRff“fh,Á•AfcfQ;Éžì!,,éflfY“;ìžì—PžE•A•à,«,<sup>3</sup>ðfJfXff}  
fCfY,.,é,±,Æ,<sup>a</sup>,Á,«,Ü,•B

ffftfHf<fg,Á•Ý’è,<sup>3</sup>,ê,Ä,ç,Ë,çf

fZfCEfNfEfbf“fhfE,ðšJ,«,Ü,•B

‘T•ð,μ,½”ÍÍ,ð•Ø,èžæ,Á,Ä•A(NfNšff)ff,μ,Ü,•B

‘T•ð,μ,½”ÍÍ,ðfRffs•Ä•A(NfNšff)ffÉ•Û•¶,μ,Ü,•B

fNfšfbf•f•fh,ìff^,ð•¶•,É•t,~,Ü,•B

fuf%ofEfffMh

fuf%ofEfffMh,ð•V<KffefBfNfflfr,É,μ,Ü,•B

fuf%ofEfffMh,ðCEÿ•ç(Gh,ñ,û,ü),•B

fuf%ofEfffMh,ðf•fFfbfNff,É,μ,Ü,•B

fuf%ofEfffMh,ð•Û•¶ffefBfNfflfr,É,μ,Ü,•B

fuf%ofEfffMh,É,Á,Äžžì,èfBfNf<

fuf%ofEfffMh,É,Á,Äžžì,èfBfNf<

fuf%ofEfffMh,É,Á,Ä•O,ìffefBfNfžžì,μ,Ü,•B

žžì,ì”-Øžì,ð,Ü,•B

‘O,ì”-CEžì,ð,Ü,•B

%oi<cž°,ì”-CEžì,è—žì,ì•ìfcfšž,Ü,½,Í”Ô•†•†•j,ð•Ø,è•Ö,!,Ü,•B

%oi<cž°”-CEžì,èžž,ìžæ,è•ž,Ý•A%f%ofCfuf%ffhšž,Ü•AfffjffefBf,ð,çf,ð“Ç,Ý•žìð•s\ç,Ü,•B

f•f<,ì—M•AfffHf•€%oi<cž°,Ö,ì”-CE¾,È,Ç•A,±[fuc,©,ç,ñ]ffefBf,Ü,•B

—ñ,ìšm”F•Ežæ,è•Á,μ•E{fç,ìM}ff;ð•s,ç,Ü,•B

fjftfefBfflfr,É•Û’±,μ•ñžì,À•s•A•,%,ñ,ð•s,ç,Ü,•B

žw’è,μ,½žžšŦ,É—<sup>3</sup>•l,Áfjffte,ÉBffT,μ•ñžì,À•s•A•,%,ñ,ð•s,ç,Ü,•B

,±,ìffY“;ðfNfšfbfN,μ,½, ,Æ,ÁfEfbf“fhfE,ìše•”,ðfNfšžžì,è,ÁBA•à—¾,<sup>a</sup>\

ffftfHf<fg,Á•Ý’è,<sup>3</sup>,ê,Ä,ç,Ë,çf

f^l f ~ f i f f E f B f " f h f E , đ Š J , « , Ü , • B  
• i • T , Ì , " m , ç , 1 f E f B f " f h f E , đ Š J , « , Ü , • B  
'æ , P I D Ì f f f E f B f " f h f E , đ Š J , « , Ü , • B  
'æ , Q I D Ì f f f E f B f " f h f E , đ Š J , « , Ü , • B  
'æ , R I D Ì f f f E f B f " f h f E , đ Š J , « , Ü , • B  
Ā Ě Ž ' Ā ' Ā ' đ f E f B f " f h f E , đ Š J , « , Ü , • B  
f t f H f % f € ' Ā ' đ f E f B f " f h f E , đ Š J , « , Ü , • B  
f z t f € f f f E f B ' Ā ' đ f E f B f " f h f E , đ Š J , « , Ü , • B  
f p f e f B f i ' Ā ' đ f E f B f " f h f E , đ Š J , « , Ü , • B  
— ĭ < à • ã ñ f E f B f " f h f E , đ Š J , « , Ü , • B  
f N f Š f b f s f f f f Q f r X ' Ā ' đ f E f B f " f h f E , đ Š J , « , Ü , • B  
f v f • f t f f f E f B f " f h f E , đ Š J , « , Ü , • B  
' ¼ ' O , É • s , Á , ½ f A f " f h f D ' € • ï , đ Ě 3 , É – β , μ , Ü , • B  
' ¼ ' O , É • s , Á , ½ ' € • ï , đ Ě 3 , É – β , μ , Ü , • B  
f N f Š f b f f f h , Ì f e f L f X f g , đ ^ ø — p ; ã • t , ã , Ā : \ B  
f t f @ f C f < , Ì f e f L f X f g , đ : Ü , • B  
f R f • f " f g • a [ Ì f f B f N f Ž Ā , μ , Ü , • B  
Ž w ' è " Ô • † , Ì f A f B f N f Ž Ā , μ , Ü , • B  
f j f t f e f B f f f a , É f • f o f C f " , μ , Ü , • B  
' ¼ , ĭ , É % ñ ñ • ü • Ø ' f , μ , Ü , • B



[fXfe f'YXfo] fRff' f[•Ž] f•fj.f)..•

fXfđf^fXfoť, í•ANifTerm, ÌfEfBf“fhfE, Ìè”Ź%?, áÛ, •BfXfđf^fXfoť, Ì•Ž!•A”ñ•Ž!, ð•Ø, è•Ö, Ì, é, É [PŽ]  
f•fj.f, Ì [fXfđf^fXfoť] fRfj“fh, ð•I’ð, µ, Á, -, ¾, ¾, ç•B

fXfđf^fXfoť, Ì•¶, Ì•”•á, É, Í•A fRff“: fh, ð•I’ð, µ, ½, Æ, «, É, », ê, ¼, ê, ÌŠÈ’PŽÈ, á, é, Û, •B“—1, É•A fçf, Ìf f^  
f“ , ð%Y, µ, ½, Û, Û, É, µ, Á, ŽŠÈÈPÈ, •B¾, ¾, ðE©, ½CHž, ç, ÌRff“ fh, ÌZÁ•s, ã, ¾Zç, Æ, «, Í•A fXf|fCf“ f^  
, ð, », Ìfc•fçf^“ ÈSO, ÌÈ’u, È^UfBfXf^f“ , ð—£, µ, Û, •B

fXfđf^fXfoť, Ì%E’r, Ì•”•á, É, Í•A È%Ž!, Ì•ç, Û, •B

•Ž!

•à-¾



Û,É%ñü,ð•Ø'f,µ,½,ç,ÆA,ñAZXfj,ì[%ñü•Ø'f'fh,ð'I,ñ,Å,-,¾,³,ç•B

Ž©“@ŽÀ•q;òž,čžg,í,ê,éftHf“fg[FAvfVf†fñ,ì[EfBf“fhfE•E•F•EftfHf'f'fh,ì•A•uf\_fCfAf•fO  
{fbfNfX•v,ì•€-Û,ÅZw'è,µ,½ftfHf“fg,Å,•B

[fcfŠ•fRff“fb[•Ž]f•fjD)..•

fztfeB,Á,Í•Afrf•f“f,ġ@Xfg,Á,Ífġ!•ê,Ä,ç,Ü,¹,ñ•BNifTernÁ,Í-CE¾“à—e,©,çfRf•f“fg•æ,ð•,,“a

•@-¢“Cff}h

•@•V◊KfAfefBfNf{flr

•@Œÿ•öŒ%Êf,•

•@f^fFfbfNflr

•@•Û“ffAfefBfNf{flr

•u•Û“ffAfefBfNf{flr•v,Å,ÍŽÿ,ÌfAefBfNfA|“O,ÌfAfefBfNffRff“fh,Å•ACE»•Ý,ÌfufB%ŒE}UfE“à,ÌfA•  
[fefBfNf<,Ì,Ž,â;Û,•B,»•Ì¼ffh;Å,Ì•AfefBf“fhfE}NfA,¢,½fA•  
[fefBfNf<,ª,È,-,ê,Ì•AZÿ,ÌfE}Bf“fhfE,ªSJ,«Û,•B

$f_{\mathcal{U}} \circ f_{\mathcal{E}} \circ f_{\mathcal{H}}$

$f_{\mathcal{U}} \circ f_{\mathcal{E}} \circ f_{\mathcal{H}}, \mathcal{A}, \mathcal{I}$

*fLhA*•[fh: [Ctrl]+[•]



[ŽŸ, ÌfAefBfNffRff“f[•Ž] f•fjD)..•

fL{f{•fh: [Ctrl]+[•«]

[ŽŸ, ÌfAefBfNf•s] fRff“fh[•Ž!] f•fjD)..•

fYcfgf<, Ì, Ÿ, ÌffAefBfNf<, Ì-c“Ç, a“â—Ê, É, , é, æ, ɹ, È•ê•f; íA, ðŽg, Ÿ•A, æ, -c“Ç•Á%o»

’†•g, Ì, , éfAefBfNf<, É, Â, ç[ŽŸ•MfAefBfNfA“-, ¶, æ, ɹ, É“@•ì, µ, Ü, •BCE»•Ÿ[É’fAefBfNf; ê, ç, Ä•\  
Ž”ÍÍŠO, Ì, Æ, «[ŽŸ, ÌfAefBfNf, A“-, ¶, æ, ɹ, É“@•ì, µ, Ü, •B

CE»•Ÿ, ÌfEfbf“fhfE“à, ÉŠŸfAefBfNf•, a, È, ç, Æ, «, Í•AŽŸ, ÌfEfbf“fhfE, ðŠJ, «•AŠY“- , , éfA•  
[fEfbfNf<, ðCEŸ•õ, µ, Ü, •B, ½, ¾, µ•Afu”%b]ffAefBfNf, fh, Ì•ê•†, Í•ACE»•Ÿ, ÌfEfbf“fh[ffB]Nf•, ¾, -, ð•\  
Ž, µ, Ü, •B

fVffgfJfbfg

[,.,@'O,ÌfAefBfNffRff"fh[•Žl] f•fjD..•

fL{f{•[fh: [Alt]+[•<sup>a</sup>]

[.,@ŽŸ,ìffBfNffRff“f[•Ž]f•fjD..•

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, ,ç, ©, İpfefBfl, İfQfXfg, ð“Ç, ÝŽæ, Á, Ä

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[%i<cZ°f\_fHfh]f•\_fCfAf•ffQbfNfX  
[fpfefBfIf\_fHfM]f•\_fCfAf•ffQbfNfX

fjftfefBfIf•\_fHfH°f€fIfvfVf†f“\_l•u”-CE¾,İ“Ç,Ý•û•v,ª•ufyfAfCEf“fg  
fŠf“fN•v,É,È,Á,Ä,ç,é•ê•†•A•e”-CE¾,İ“Ô•†,¾,¯,ðŽw’è,µ,Ä,»»,İ”-CE¾,É,Î,;,é,·,×,Ä,İfRf•f“fg,à“Žž,É“Ç,ÝŽæ,é,æ,ϣ,Èžg,ç•û  
[fIfvfVf†f•ff]f,İ[.,%ñfIfvfVfRff]f“fh,İ•uŽw’è,µ,½”Ô•†,İ”-CE¾,É%Á,İ,ÄfRf•f“fg,à“Ç,ÝŽæ,é•v,ðf fFfbfN,µ,Ä,-,¾,¾,ç•B  
•uŽw’è,µ,½”Ô•†,Û,Â,ðŠù“Ç,É,·,é•v,Ä•Gf•g•Qj,İE¾,ÝŽæ,è•v,İ“ñ,Â,İ•€-Ú,ð—\  
-ñ,µ•AfAfNfZfX,·,é,Æ•A‘OŽÖ,İ•û,ª•æ,ÉŽÀ•s,¾,ê,Û,•B,±,ê,É,æ,è•A•V,µ,-%Á“ü,µ,½ftfH•  
[f%of€É,Ç,Á‘½•”,İ-ç“Ç,ª,éžž,É•A”-CE¾,İ•”,ð“K“-É%ÆE;ð,Ä;“ÇBY,Æ,é,±,Æ,ª%Á”\  
ftfHf°f€İ‘ðfEfBf“fhfE,Á%i<cZ°^ê—,ð•\  
Ž!,µ,½,Æ,«,É•A•u”-CE¾•v,İ—“\_l•”Žš,ª•ifŠfXfg,ðžæ“¾,µ,½žž“\_„Á,İ•j•Á•V,İ”-CE¾,İ“Ô•†,Á,•B,±,ê,ðžQ•l,É“K“-È”Ô•†,ðž  
-ñ,µ,Ä,-,¾,¾,ç•B

[fz{f€f]p\_e fBf \_fE f\* [fA] f \_fC fA f • fG b fN fX





,rÄ“à









fzfXfg, Ì•T, Ì, "m, ç, 1, Í^•T-Ø—j“ú, 2, ë, É“ü, ê, Ö, í, è, Û, •B“ü, ê, Ö, í, Á, Ä, µ, Û, ƣ, Æ“à—e, ð“Ç, ÝŽæ, ê, È, -, È, è, Û, •B«»-j, Ì, , éf^  
fCf g f <, ðE©, Â, -, 1/2, ç•A‘•, B, É“Ç, ÝŽæ, é, æ, ƣ, É, µ, Ä, -, 3/4, 3, ç•B

fYfCf g f <, Ì“Ç, ÝŽæ, è, Í•V, µ, ç, "m, ç, 1, fzfXfg, É“o~^  
3, è, 1/2, 1/4Eä, ÌfAfnfZfXŽž, ÉŽ©“@“Í, É•s, í, è, Û, •B“1/4, ÌŠÄ««, ©, çfAfnfZfX, µ, 1/2, 1/2, B, "m, ç, 1, Ìf^  
fCf g f <, aŽæ, è, ž, Û, è, È, ©, Á, 1/2•A, È, çf g f <, Ì, ÝŽæ, è, ðŽw, µ, Ä, -, 3/4, 3, ç•B

[fNfŠfbfsffTofX“Ç,ÝŽæ,ÇfAf•ffObfNfX

[,v,^,••f,;v,^,•]\_fCfAf•fGbfNfX



[—ñfšfXfġLfCfAf•ffQbfNfX  
[•,%ñfšfXfġLfCfAf•ffQbfNfX

—ñ•E•,%ñ•€—Ú,ì•Á•%•,ì•”Žš,í•A[Cu]Dj fÁžABš,T•€—Ú,©,đŽl,μ,Û,•i-[fšfHouirñ]f\_fCfAf•ffO  
{fbfNfX,ì•æ,P,Ážw’è,μ,½fjftfe,ffID,ÁžÁ•s,.,é•€—Ú•j•B

—ñ,ìžæ,è•Á,μ

•C<sup>3</sup>,<sup>a</sup>•I,í,Á,½,ç•AfefLfxfg“à’ fGffE fñ> fl f’“,đfNfšfbfN,μ,Ä,-,¾,ñ,ff“fZ,đfNfšfbfN,.,é,Æ—\  
—ñ,<sup>a</sup>žæ,è•Á,<sup>3</sup>ê•AfefLfxfg,Í”pšü,<sup>3</sup>ê,Û,•B



[fIfvfvfifffjif,İ[Šm”Ff•fbffZW,İ—Lff“fh,Å•A•u—\  
-ñŠ@—’Žž,İŠm”F•v,İffFbfN,đŠO,μ,Ä,č,é,Æ,«,Í•AññfNf&fWf,čÜ,¹,ñ•B

[•,%,ñ•Ý}ff“f(fAfNfZfX,ffjD)..•



•,%,ñ,Ì•Ý'Ž,Ì•A•Ý'è,Ì•X,ð•s,ç,Û,•B•,%,ñ•Ý'èfpflf<,Í•A^È%Ž,Ì•B,Ì•BfhfE,É•\

•EftfHf%of€I'ðfEfBf"fhfE

fAfNfZfX•§EÀ,ÆfAfNfZfXŠÔŠu,Í,`,m,c•ðE•,Å,•B—¼•û,Ì•ðE•,ð-ž,½,.,Æ,«,Ì,Ý•,%,ñ,µ,Û,•BfAfNfZfX•§EÀ,Ì•ufAf  
•[f",ÌfAfNfZfXŠÔŠu,ð•¶,©,µ,½,ç•ê•‡,Í•A,±,Ìfpflf<,Ì•û,ÌfAfNfZfXŠÔŠu,Í,O,É•Ý'è,µ,Ä,-,¾,¾,ç•B

[fAfNfZfX•§EÀÇfAf•fQbfNfX

•,‰ñ•Ý'èfpflf<,É,à•A•,‰ñ•€-Ú,²,Æ,Ì•ufAfNfZfXŠÔŠu•v,Ì•Ý'è,ª,è,Û,•B—¼•û,ÉfAfNfZfXŠÔŠu,ðŽw'è,µ,½•è•‡•A',ç  
•f“,Ì•û,ÌfAfNfZfXŠÔŠu,Ì,Ý,ð•¶,©,µ,½,ç,Æ,«,Í•A•,‰ñ•Ý'èfpflf<,Ì•û,ÌfAfNfZfXŠÔŠu,Ì,O,É•Ý'è,µ,Ä,-,¾,³,ç•B  
Šù•¶,Ìfppf“,Ì•Ý'è•İ•X

fpf¶f“—¼,ð•İ•X,µ,Ä,à•A,»•è,ðŽQ•Æ,·,é•,‰ñ•€-Ú,Ì•Ý'è,ª~A“@,µ,Ä•İ,í,é,±,Æ,Í,è,Û,¹,ñ•B

•i•¬,µ,½fpf“,Í•A•,‰ñ•Ý'èfpflf<,Ä•,‰ñ•€-Ú,²,Æ,ÉŽw'è,·,é,±,Æ,É,¶fè,ðñEµÉZ¾,ÛÄ•B§¶A<@”\  
,Í“-«,Û,¹,ñ•B

•Ý'è,Ì—á•F

•i,P•j•,‰ñ,ÍŠi”’,ì“ú,ÌEB‘O,QŽž,©,ç,VŽž,ÌŠÔ,¾,~•B“¬,¶“ú,É,Q‰ñ•,‰ñ,Í,µ,È,ç





[fAfNfZfX]LfCfAf•ffQbfNfX

•;•”ID,đŽw’è,μ,½•ê•‡,Ì“©•ì,É,Â,ç,Ä

,±,ÌàŠz,É,ÍèŠz—çà,Æ•Ú’±—çà`ÈŠO,Ì%Ūçà,Í“ü,è,Û,¹,ñ,Ì,Â•A,²’•^Ó,-,¾,³,ç•B  
,»),ìEŽ,Ì—çà•î•ñ,ð“Ç,ÝŽæ,Á,Ä,ç,È,çž,‡,áZÀ•Ñ;BÇÁ’è—çà,âŠÇ,³,ç,Û,ä,ñ•B



ffBfXfN<ó,«—e—Ê

Ex••,Í•A•Ý'è'l,ÉŠî,ÃŽ,ÄèlÛ••B(Ex••,ª\  
Žl,³,ê,È,ç,©,çfAfNfZfX'†,É<ó,«—e—Ê•s'«,'ª,«È,ç,±,Æ,ª•Û•Ø,³,ê,é•A,Æ,ç,±,±,Æ,Á,Í,è,Û,¹,ñ•B  
—ñ•€—Ú•A•,%,ñ•€—Ú,ðŠm''F•E•C•³,.,éñŠm'',Í•A•f•f'',.,æ,Ñ,%,ñŠm''f•f'',ðfNfŠf•f•fN,¶,Û•ŠB''F]  
f\_fCfA•f•fQbfNfX,Žl,³,ê,Û,•B

[•%Šú•,%BjJ“f(lfAfNfZfXfjJ)..•

[f^fCf}fA,fNfZfX]fCfAf•ffQbfNfX

•;•”Žž••,đŽw’è,μ,½,Æ,«,Í•K,•u-^“ú•v,Ì•€-Ú,đf`fFfbbfN,μ,Ä,-,¾,³,¢•B

-^“ú

“à‘ ffCf}đŽg,ϣ,Æ,«,Í•A^È%°°,ì•đC•,ª-ž,½,³,ê,È,¢,Æ,«,ÍfA,fNfZfX,Å,«,Û,¹,ñ,Ì,Å,²’•Ó,-,¾,³,¢•B

















fGf%®-•¶,μ,½•ê•‡•AŽÀ•s,³,ê,È,©,Áñ½€-Ú,Í,»,Ì,Û,Ûžc,Á,Ä,ç,é•ê•‡,ª,è,Û,•B•ı%ñ,½,Û,½,ÛfGf%•  
[,É,È,Á,½,¼,-,ŽŸ%ñ,ÉŽÀ•s,Ä,«,é,±,Æ,ªŠú`Ò,Ä,«,éñfŠfKfg,Đóıœ•A,Ä,ı,¼,-,È,Ç,Ì,Í^,đ,μ,Ä,-,¾,³,ç•B

•,%,ñ•Ý`è,μ,Ä, ,é%ï<čŽ°,âf%fcfu%ofŠ,È,Ç,ªfzfxfg,Č,ñfž,Èxñ,ıf,è,ı,ñ•Ý}Rf}  
f“fh,Á,»,İ•€-Ú,đ‘I,Ñ•A•u“Ç,Û,È,ç•v,É•Ý`è,·,é,Æ•,%,ñ•Ý`è,đŽæ,è•Á,·,±,Æ,ª,Ä,«,Û,•B

f•fO,đfNfŠfA

fpfXj[ph"ñ•Žl,đ•Ý'è,μ,Ä,ç,é•ê•‡,É,Í•Ů•ñ,Æ,ÌŽ,ç,é"ü—Í—"•,Í•o,Û,1,ñ•BffhXfñ—Í,.,é•ê•‡,Í•A•u"ñ\ Žl•v,Ì—x,Ì•u"ffhç,ffNfŠfbfN,μ,Ä,-,¾,³,ç•B

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,±,Ì—"•,đ•ê"x fFfbfN,μ,½, ,Æ,Í•A f fFfbfN,Ì%đ•œ,đ•ìp,Æ,Í•A•X,PEDE,«,É•A'æ,ffhXf•  
[fh,Ì"ü—Í,ª•K—v,É,È,è,Û,ffhç,ç,½•é•‡•A"ñ"x,Æfpffhç,đ•m,é,±,Æ,ª,Ä,«,È,-,È,è,Û,.,Ì,Ä,²•Ó,-,¾,³,ç•B

“o~•û-@,É,Â,ç,Ä,Í•A term “o~^,Ì,²•Ä“à

NifTerm, ì•Ý'è, ì•Ï•X, Å, •B, f, j, t, f, é, f, B, é, Ý'è, µ, Ä, , é, f, f, X, ø, Ï•X, , , é, à, Ì, Å, Í, , è, Ü, ¹, ñ•B

‘—à’É’ff,‘—à,μ,½“à—e,É,Â,ç,Ä,ŽÖ,Éöç,••;é;öz/ß,ì,à,ì,Å,•B‘—à’É’mf••  
[f<,đ‘—,é,±,Æ,Å‘—à,•s,í,ê,é,í,̄,Å,Í, ,è,Û,¹,ñ•B

•Ú•×,É,Â,ç, Niffarm “o~^ì,2^Ä“à



,±,ê,©,ç•Ý'è,μ,½,çfppfñfö“ü,ê,Ä,à-³Eø,Å,•B,.,Å,ÉNifTerm,É•Ý'è,μ,Ä, ,é,à,Ì,ð“ü—Í,μ,Ä,-,¼,³,ç•B



[,Šě,¢]f\_CfAf•fCbNfX

,±,İ•û-@,Ä,Í,P,Â,ÌfAfNfZfXf|fCf“fg,¾Ä,ŽŽš%àÄÄ\«,éfAfNfZfXf|fCfCf,İfÈ,©,Ä‘ð%Ä’\  
.È,à,Ì,¾,-,Ä,•BfAfNfZfXf|fCfCfYfç

fvf•fpfefB,ð%ÿ,µ,Ä•o,Ä,-,éfAfNfZfXf|fCfCf,İfÈ,ÿ,.,é.<@,Ä,.,Ì,Ä•Af^  
fu,â•€-Ú,Ì-¼‘O,Íf,ff€É,æ,Ä,Ä^á,æ,©,à,µ,ê,Û,¹,ñ•B

•Ú‘±-¼•iHyperROAD,Ì•ê•‡,ÉŽw’è,µ,Û,•j

HyperROAD,ÌfAfNfZfXf,ð,“,±,È,æ,É,Í•A, ,ç,©,¶,Bf\_fCf,,fAfNfZfXf|fCfCf,ÉfCf“fXfg•  
[f<,<sup>3</sup>,ê,Ä,ç,é•K—v,<sup>a</sup>,.,è,Û,•B‘¼,İf)  
ftfg,ÄHyperROAD,É•Ú‘±,µ,ÄŽg,A,½,±,Æ,<sup>a</sup>,.,é•ê•‡•A,Û,½,İf\_fCf,,f<fAfbfv,Ìfvf•fofCf\_Éo—R,ÄfCf“f^  
[flfbfg,ð,Žg,ç,İ•ú,Í,.,Ä,É,±,ê,ç,<sup>a</sup>fCf“fXfg,ç,Û,.,Ì,Ä•æ,É•i,ñ,Ä,-,¾,<sup>3</sup>,ç•BfCf“fXfg•  
[f<,<sup>3</sup>,ê,Ä,ç,É,ç•ê•‡,Í•ANIFTERMXT,ðŽQ•l,É,±,ê,ç,ðfCf“fXfg•  
[f<,µ,Ä,©,çWindows,ÆNifTerm,ð•N“©,µ‘¼,µ,Ä,-,¾,<sup>3</sup>,ç•B

HyperROAD,Íx,ç

f\_fCf,,f<fAfbfvflfbfgf••

[fN,İ•Ý’è,ÉŠÖ,µ,Ä,Í•ANifTerm,ÍŽ©“@“l,ÉffftfHf<fg,ð—p^Ó,µ,½,èOS,İ•Ý’è,ðŽ©“@“l,É•İ•X,µ,½,è,.,é,±,Æ,Í•ê•Ø, .,è,Û,¹,ñ,  
.Ä,Ä•<sup>3</sup>,µ,•Ý’è,µ,Ä,-,¾,<sup>3</sup>,ç•B

.P•DNifTerm,ÌfAfNfZfXf|fCf“fg,İf\_fCfCfAfNfZfXf|fCfCf,Ä•Ú‘±-¼

HyperROAD,ÆHyperROAD64,ÆHyperROAD

PIAFS,ð•Ê,Ïf,ff€€,ĂŽg,ç<sup>a</sup>,-,é•ê•‡,Í•Af\_fCf,,f<fAfbfv•Ú'±,ð,»„,Ï•”,¾,~i,Á,Ă•A,»,ê,¼,ê,Éf,ff€€-¼,ðŽw'è,µ,Ă,-,¾,¾,ç•B

NIFTY Manager for WIN95,ð,“Žg,ç,Ï•ê•‡•A•V,µ,ç•Ú'±,ð•i,ç,,É•ANIFTY

Manager,Žg,Á,Ă,ç,é\_fCf,,f<fAfbfv•Ú'±,Ï-¼'Ç•NIFT,Žg,æ,æ,É•Ý'è,·,é,±,Æ,à%•Á”\

,Á,·,•A,“Š©,ß,Í,µ,Û,¹,ñ•BNIFTY

Manager,Í,±,Ï•Ý'è,ð'h,è'Ö,!É,<sup>a</sup>,çfAfNfZfX,µ,Û,·,Ï,Á, ,Æ,©,çNifTerm,ÁfAfNfZfX,µ,æ,æ,Æ,µ,½,Æ,«É•Ý'è,<sup>a</sup>•Í,í,Á,Ă,µ,Û,<sup>a</sup>, ,è,Û,•B•ã,Ï—v—Ï,ÁNifTerm—p,Ïf\_fCf,,f<fAfbfv•Ú'±-¼,ð•V,µ,-i,Á,ĂŽg—p,·,é,æ,æ,É,µ,Ă,-,¾,¾,ç•B

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•, ‘, ð—¼•ûŽg, œ•ê•‡, Í•K, , —¼•û•Ý'è, μ, Ä, -, ¾, ¾, ç•B, Ç, ç, ç, ©^ê•û, ¾, •Ý'è, :ê, Í'¼, Ìfy•  
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[fw, ðf`fFfbfN, μ, Ä•İ•X–Y, ê, É, 2'•^Ó, -, ¾, ¾, ç•B



ROAD3 INS-C, Ì•ê•‡, Í, s, `Ì”ñ“Š(ASYNC), ð•I, ñ, Å, -, ¾, ³, ç•B“(SYNC), Ì•Ý’è, µ, ©fCf“fXfg•  
[f<, µ, Ä, ç, È, ç•ê•‡, Í, sfj]f) fAf<, ð, ²——, Ì•ã”ñ“Š, ð, fC, Ä, ç, f, ç, è, ð•I, ñ, Å, -, ¾, ³, ç•B  
fvf•fpfefB

fvf•fpfefB, ð%ÿ, µ, Ä•o, Ä, -, é, f, fC, N, X, Í, ð, f, f, f, f, Ì•ñ•Ý, ·, é, @, Ä, ·, Ì, Ä•A, f^  
fu, â•€-Ú, Ì-¼•O, Íf, fff€É, æ, Á, Ä^á, æ, ©, à, µ, ê, Ü, ¹, ñ•B

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Íf, fff€É, æ, è`Ü, È, é, ½, B¼, Ìf, fff€Ä•Ý’è, µ, ½fvf•fpfefB, ðŽg, æ, ±, Æ, Í, Å, «, Ü, ¹, ñ•Bf, fff€¼, Ì•T’ð, ð•İ•X, ·, é, Æf, fff€Ìf, fW, a•o, Ü, ·, Ì, Ä•A, Í, ¶, B, ©, ç•Ý’è, ð, â, è¼, µ, Ä, -, ¾, ³, ç•B

















•Ú•x•Ý'è,ðŽg,ϣ,Æ•A•i•” ,ÏfAfNfZfXf|fCf“fgvðÉC;ÓÄ•Ý,ÏfQfÄ,“,ç,Ä•A—p“r•Ê,ÉfAfNfZfXf|fCf“fgfOf•  
[fv,ðŽg,ç•ª,½,è•A,Â,È,ª,é,Û,Ä,Ð,Æ,Â,ÏfOf•  
[fv,Ï,È,©,ÏSefAfNfZfXf|fCf“fg,É•‡”Ô,Éf\_fCf,,f<,µ,½,è,.,é,±,Æ,ª,Å,«,Û,•BEÂ•X,ÏfAfNfZfXf|fCf“fg,ð•Ý'è,µ•AfAfN  
[fv,ð•i,è,Û,•B

[fIfvfVf|fAfNfZfXf|fCf“fg•Ú,ÏfQfÄ,ÏfZfX•û-@]  
,Ä•AfAfNfZfXf|fCf“fg,ÏŽí—P•Ê,ÉfAfNfZfX•û-@,ð•Ý'è,.,é•K—v,ª, ,è,Û,•B



fAfNfZfX,đŽn,β,é,Æ,{f,f,Ů,w\*è,.,é—“,Å,Í•A^ê”Ô•¶,É[fé“QK`è'1,É,È,è,Û,•B,α,-,Â[Q,Ů]f•  
[,É,“,ç,Ä,-,¾,³,ç•B

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fjftfefB•»fŠfXfg,Ì†,ÌfAfNfZfXf|fCf“fg,ì•ê•‡,Í•î•ñ,ð\  
Ž!,,é,¾,̄,Ā•Ī•X,.,é,±,Æ,Í,Ā,«,Ü,¹,ñ•BfXfNfŠfVfg,ÆfAfNfZfX•û-@,ÍÈ%°,Ì•Ŵ•|•I,ÈŽw’è•û-@,Ī\  
,A,ĀŽ©“@“I,É•Y’è,³,ê,Û,•B

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fAfNfZfX•û-@,Ételnet,ðŽw’è,μ,Ā•c  
NifTerm,Ā•SŽ©“@f\_fCf,,f<fAfbfv•Ú’±,ð,“,±,È,α•ê•‡



ŠÂ««,đŠŮ,²,ÆŽ•,Á,Ä,ç,©,ê,Ä,àfAfnfZflXlA,fx,ffl,ç,ßlAvfvf,ñlNl'©ŽžpfXf••  
[fh“ü—Í,ð•Ý'è,µ,Ä,“,ç,Ä,-,¾,³,ç•B





fzfXfg,ª-ŽG,µ,Ä,ç,é,Æ,«ÍfjftfefBfT•  
[fu,©,ç,Ì%ž“š,ªx,ê,é,±,Æ,ª, ,è,Û,•B, ,Û,è'Z,çŽžŠÔ,ð•Ý'è,·,é,Æ,»,)ŠÔ,É%ñ•ü,ª•Ø,ê,Ä,µ,Û,±,±,Æ,ª, ,è,Û,•B  
Žè“@‘€•ì’†,Á,à-³Ê•MŠÄŽ<Í“- ,ç,Ä,ç,Û,•BŽEMfAflü—Í,ð,µ,È,ç,Û,Û-³Ê•MŽžŠÔ,ªEo%ß,·,é,Æ%ñ•ü,ª•Ø,ê,Û,•B

BPLUS“]—’†,É-³Ê•M,ðEÿ•o,µ,½Žž,É,Í•Afvf•fgfRf<É•]  
,Á,½•û-@,Á•A,Á,« ,éEÀ,è%ñ•œ,É,Á,Æ,ß,Û,•B,» ,ê,Á,à%ñ•œ,Á,« ,È,ç,æ,±,È”ñ•í,Ì•ê•†,É,Ì,Ý•A,±,ÌŠÄŽ<ª“- ,-,±,Æ,ð‘z’è,µ  
‘—“à—e,âfzfXfg,Ì•-ŽG“x,É,æ,Á,Á,Í•A,Ø,È,è,È,ç,Û,•B

•u•efEfBf“fhfE,ðfAfcfRf“%»•v,ð•Ý'è,µ,Ä,ç,é•ê•†•A/RflfNfg,µ,½Žž“\_ ,ÁNifEENifXfâfCfJf•fOf  
[,ªŠJ,ç,Ä,ç,é,Æ,«Í•A/AfCfRf“%» ,Í•s,í,ê,Û,¹,ñ•B

telnet,Á•Ú‘±Žž,Ì“@•ì

fjftfeBffTt, ðfIfvVf†f“ , ð•İ, l, é, [Æfžj]f, ê, È, -, È, Á, ½, è•AfXfNff•, Ž, Ü, ç, È, -, È, Á, ½, è•AfyfAfCef“fg  
fŠf“fN, Ā, È, -, È, Á, ½, è, μ, Û, •BfIfvVf†f“ , ð•İ, l, ½, -, È, ç, Æ, «, Í, â, Í, É

, ±, İ•€-Ú, Ç, Ÿf<“Ç, ÝŽā, ðİs, ð‘O, É•Ý`è, μ, Ä, -, ¾, ¾, ç•B

“ú•tŽw`è



fzfXfg'µ, ð%oi<cŽ° [ffŠfjfb, ê, Ä, à•A, »), ðEä%oi<cŽ°, ÉfAfNfZfX, , é'O, ÉfTfCfNfŠfbfN, ÅŽ©“©“L, É-ç“Çf|fCf“f^  
, a•i, ñ, Ä, µ, Ü, Á, ½•ê•‡•A•ã<L•ðCE•, É^ø, Á, ©, ©, [f, Ä, f, ð, É, Ä, f, Š, f, f, Ü, †, ñ•B

, ±, ð<@”Í15, ©, ç, ð<@Ä), ð, Ä•A<CE”Ä, Ä`È‘O, É•, , %oñ, µ, Ä<v, µ, Ô, è, É“ü, Á, ½%oi<cŽ°, ð•ê•‡, Í•ã<L•ðCE•, É^ø, Á, ©, ©, Á, ½•ê•‡, Ä, àfŠ  
[fAf<, ð”FŽ-, Ä, «, Ü, †, ñ•B

Žè“@, â‘¼, fffg, Ä-ç“Çf|fCŽf•Y`è, µ, ½•ê•‡, È, Ç•A-ç“Çf|fCfŠfjff...•  
[fAf<, ð”»'f, a•3•í, É“@ì, †, •A, »), ð%oi<cŽ°, ÉfAfNfZfX, µ, æ, µ, Æ, , é, ÆfGf%o•  
[, É, È, è, Ü, •B, »), ð•ê•‡, Í•A, ±, ð•€-Ú, ðf^fFfbfN, ðŠO, µ, Ä, -, ¾, ¾, ç•B







f•f<,É,æ,éEfbf<fXfvf•fOf%of€,-³••Êˆ—•t,È,Ç,ÉˆÎˆ,.,é,½,B•AfofCfifŠf••  
[f<,Í•AŽ©“@Žó•M,¹,.,É•Aˆ—•tCE³,ðŠm”F,µ,Ä,©,çŽó•M,.,é•û,^ˆÀˆS,Ä,•B

f•f<,Íˆ•M“ú,©,ç-ñ,Q•TŠÔ,ÁfzfXfg,©,ç•í•œ,³,ê,Û,•B

¼,Ìf}Vf“;Á“Ç,Þ•AfIf“f%ofCf“,ÁfX,ð%—•pT;é•A,È,Ç,Áf••  
[f<,ªŠù“Ç,É,È,Á,Ä,µ,Û,ðŠÁ««,Ì•û,Í,±,ÌfIfvfvf†f“,ðf`fFfbfN,µ,Ä,“,•,Æ•Ö—,Á,•B  
“Ç,ÝŽæ,èEäfzfXfg,©,çŽ©“@•í•œ

fzfXfg,Ìf•f}fbfNfX,É•Ûˆ¶,Á,[f,é]••,É,ÍCEÀ,è,ª, ,è,đ,Á;Bç,É,È,é[Æ,fŽó•M,Á,«,-,È,è,Û,.,Ì,Á,²ˆÓ

fAfhfCEfXfufbfNf•,Ì•€-Ú,ÌŽw`è,ÉŠÖ,í,ç,.,•A fzfXfg,©,çŽ©“@•í•œ,³,ê,.,É,»,Ì,Û,Û•Ûˆ¶,³,ê,Û,•B,±,é,Í•A,.,Æ,©,ç,»,Ìf••  
[f<,Ì“à—e,ðŽ©ª,ÌfAfhfCEfXfufbfN,ÉŽæ,è•ž,ß,é,æ,µ,É,.,é,½,B,Á,•BfAfhfCEfXfufbfN,ÉŽæ,è•ž;Ý,Í•A f••  
[f<,ðˆI,ñ,Á,©,ç•A f[fE f•f,Íf`fCfA f•f(ðbfNfX,ðŠJ,«•A•ufAfhfCEfXfufbfN`uŠ•v,©•ufAfhfCEfXfufbfN`Ç%Á•v,ð—\  
-ñ,µ,Û,•B

f•f•ffbfNfXtf<,É,²'•^Ó

fzfXfg, Ìff•ffbfNfXÑifTerm , Ìf•f•fEfBf“fhfE, Ìf•fO,Æ,Í-³ŠÖQW;Å•B;f•ç,-,ç,Å,à—,ß,ç,ê,Û,•B











SMCHK fRff“fh,đŽg,α,É,Í•A‘αQED,P,ÉÊ•”Ê’m,.,é,æ,QEDα,ÌjftfefB#U,ìf•<  
fIfvfVf†f“;•Ý’è,³,ê,Ä,ç,é•K—v,ª,è,Û,•B,±,ÌfNfVfñf#I,Í  
[fgfpfCf•fbfg,Á,Í•Ý’è,Á,«,Û,¹,ñ,Ì,ÁZ-‘O,ÉZè“@,Á•Ý’è,μ,Á,-,¾,³,ç•B



f\_fCfAf•f0ffNfX,ì¼,ì•Ý'è,Æ^Ù,È,è•A,±,ì•€-Ú,ì•Ý'è,í•A,.,×,Ä,ÏD,É«'Ê,μ,ÄŽg,í,ê,Û,•B

MIMEfIvfVf†f“;ð•Ý’è,.,é  
[MIMEf•f<fIvfVf†f“;ìf•fQfAf•fQbfNfX

NifTerm 1.x,â•A’¼,ÌMIMEf†f<-ç‘Î%ž,Ìf\  
ftfg,Æ•l—p,³,ê,é•ê•†,Í•A•Ý’è•İ•X,μ,È,ç,Â,-,¾,³,ç•B,»,êˆÈŠO,ì•ê•†,Í•A—LÆø,É•Ý’è,.,é,±,Æ,ð•,,•§,μ,Û,•B

,±,Ìf\_fCfAf•fQbfNfX,Í•A•f<fIvfVf†f†f†f“;fQfIvfVf†f†f†fD)..•  
HIDD\_MAIL\_OPTION,ì•uMIMEfIvfVf†f“;ð•Ý’è•vç%Ý,.,Æ,ç,Â,Â,àCEÄ,Ñ•o,¹,Û,•B

“Y•tf@f(MIME•Auuencode•ABinHex)





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fEfBf“fhfE,ð•Â,¶,é,Æ,«,É•s,í,ê,Û,•BNifTerm,ð•I—<sup>1,3,1</sup>,é,Æ,«,É,àfEfBf“fhfE,<sup>a</sup>•Â,¶,Û,•,Ì,Å•AŽ©“@%øð•ú,<sup>a</sup>•s,í,ê,Û,•B,½  
,ð•N“@,μ,½,Windows,ð•I—<sup>1,3,1</sup>,é,Æ,«,É,Í•s,í,ê,Û,<sup>1</sup>,ñ•B

f•fOftf@fCf<,ð•X•V,•,é,Â,Ç•ÛŠÇ,•,é

•í•œ,<sup>3</sup>,é,é,Ì,Í•ANifTerm,ÌUPLOADffBfEfNfgfŠ,É,éŠSgTŽđ,f@fCf<,Ì,ϣ,ç,•ANifTerm,Ì—\  
-ñfŠfXfg,ÉfAfbffvfr,<sup>a</sup>È,ç,à,Ì,Å,•BŽÀ•s•Í,Ý,Ì,à,Ì,à•A—\  
-ñfLfff“fZf<,μ,½,à,Ì,à•ANifTermŽ©“@“I,É•í•œ,<sup>3</sup>,é,Û,•BNifTerm,Ì,Å,•,Æ,ffU@fCf<ÈŠO,Å,à•í•œ,<sup>3</sup>,é,Û,•B

fAfbfv,μ,½fefLXfg,ÌE´¶,ð•Û´¶,μ,Ä,•,«,½,ç•ê•‡•A,Û,½•A•Á,<sup>3</sup>,é,½,ç•ç,éftf@fCf<,ðUPLOADffBfEfNfgfŠ,É`u,ç,Ä,ç

Šù´¶,Ìftf@fCf<,ÉÍ,μ,Ä•ANifTerm,<sup>a</sup>•ã<L,Ìf•fbfZ•  
[fW,ð,Â,¯,½,èŽæ,Á,½,è,•,é,Ì,Í•A,±,ÌfIfvfvf‡f“ ,ð•Í,!,Ä,©,ç•A•Á{X,Í%øð•ú,ç,í(X,½,Æ,«,Á,•B

<ó,«—e—Ê,<sup>a</sup>•-,È,ç,Æ,«,ÌffuföBfAfNfZfX

fAf“•j,ì•ê•‡•AffBfXfN,Ìó,«—e—Ê,Žw`è,μ,½`ã,«,³,æ,è•¬,³,ç,Æ,«Ex••,μ,Û,•B

-³IfAfNfZfX,çfAfNfZfX•A,Û,½,Í•N“@Žžž©“@fAfNfZfXj,ì•ê•‡•AEx••,ð\  
Žì,μ,Ä,à`O—j,<sup>a</sup>,•,è,Û,<sup>1</sup>,ñ,Ì,Å•AffBfXfN,Ìó,«—e—Ê,Žw`è,μ,½—e—Ê,æ,è,à•-,È,ç,Æ,«fAfNfZfX,ðE©•‡,í,<sup>1</sup>,Û,•B

[f•fOfCf“ ,Ìì•ê•‡,ÍEx••,μ,Û,<sup>1</sup>,ñ•B

["à' fE'f<- ["à' fu f%o fE fU fR fJ] fU[fI fV fV f# fJ]D)..•

f f^“, Å•V’ .[ffAB fN f<, ðŽŸ•X“Ç, P, ±, Æ, ^, Å, «, Û, •B

‘¼ f l f b f g f f • @ ‘ŠŽè, Ì-¼ ‘OŽÌ\



%ü•s,Í•A•¶Žš•F,Æ”wEi•F,ŽšÖ,Ů,F,Ā,if<fJf%•  
[˘ÈŠO,İfVfXfef€;¼,Æ•A•¶Žš•F,Æ”wEi•F,ª,ß,ç,ÆE©,É,-,ç,À,Ü,Ě,Ĵ,Ď,Ě,Ď,V,Ě,ç%Ō”\  
[fEfBf“fhfE•E•F•EftfH•YfĚ]ĎE©¼,µ,Ä,-,¼,³,ç•B

”¼ŠpfJfi,Í•@ŽřÈ•¶•¶Žš

frf•f“fgf<,ìEŽ(É,fl,\*, , é•ê•š,ÖŽQ%oÁ,μ,Ä,ç,€Á†•A,ì•Ý`è

ftfHf%of€,,ì•Ý`è,Í,,~~fl~~ff;Ì’S%oì<cŽ°,É<α`Ê,Å,•B%oì<cŽ°-^,É•Ý`è,,é,ff,€(p,ÁB,Ä,Í,ñ•Bfz•  
fCf<,İŽ©“@•¶•¬,Í,s,í,ê,Û,¹,ñ•B

Ž©“@•¶•¬•û-@

‘I`ð,<sup>a</sup>,È,ç,Æ,«,Ì<K`è’l

,±,ê,Í•@E`

ŠO•”fGffBžg—p, ·, é•ê•‡, Í•AfgffBf”©, μ, Ä, ©, ç•A—\  
-ñ, a“ü, é, Û, Ä, ĪŠŌ•ANifTerm, ð•N“©, μ, ½, Û, Û, É, μ, Ä, ”, ç, Ä, -, ¾, ¾, ç•BfeLfxfg, Ī•Ò•W, a•I, í, é, æ, è•æ, ÉNifTerm, ð•I—¹, ·, é, Æ•A  
-ñ, a“ü, è, Û, ¹, ñ•B

Žg—p, Å, «, éfGffBfE%°°, ì•ðE•, ð-ž, ½, ·, à, Ī, Å, •B  
•Efrff“fhf%ofCf“, Éftf@fCf<-¼, ð•t, ð•ÄfCfBfE, »., Īftf@fCf<, a•Ò•W, Å, «, é, ±, Æ•B

[fTfEf“ffRff“fb[fvfVf#\*ff)..•

•uf\_fCfAf•fObfNfX•v,É•Ý'è,μ,½ftfHf“fg,Í•Af\_fCfANfQì¼•AftfH•  
[f%of€'I'ðfEfbf“fhfE,È,C,Ì'I'ðfEfbf“fhfE,È,ÁŽg,í,è,Û,•B•uf\_fCfAf•fO  
{fbfNfX•v,ÌftfHf“fg,Í•Ý'è,NAZá%ñ•N“@,μ,½,Æ,«,É—LCEø

“ú-{CEêÈŠO,ÌftfHf“fg,đŽw'è,μ,È,ç,Å,-,¾,³,ç•B

•sŠÔ,ì•Ý'è



NifTerm ,Á,Í•A“{EêftfHf“fg,¾, - aŽg,!,Ü,•B“ú-  
{Eê`ÈŠO,ÌftfHf“fg,ðŽw`è,μ,È,ç,Á,-¾,¾,ç•BftfHf“fg,ðŽw`è,μ,½,Æ,«,ÉfTf“fvf<,Ì,ÆEË;É•u, ,ÿfAf@•v,Ì,æ,π,É“ú-  
Ž,¾,è,é,Ì,“ú- {EêftfHf“fg,Á,•B

[•F,İžw'èf\_fCfAf•ffbfNfX

NifTerm ,Â,Í•A•u•f•F•v•iffBfUfŠf“ŽOÈ,µéÁ•j,¾, -,ªŽg-,Â%•Bf\<ffp600-œ•F“ŽZ%•Á”\  
•j,İfVfXfef€ ,İ•è•‡,Í•A”CÓ,İ•F,ªŽg,İ,Ü,•B,» ,é`ÈŠO,İfVfXfef€ ,İ•è•‡,Í•A, ,ç,©,¶,ßfVfXfef€ ,Â`è< ,³,ê,½•u•f•F•v,¾, -,ªŽg  
{•F,ª•f•F,Á,È,ç•è•‡,à, ,è,Ü,•j•B•f•F`ÈŠO,İ•F,đŽw`è,µ,½•è•‡,Í•A`è”Ó<ß,ç•f•F,ªŽg,í,è,Ü,•BŽw`è,µ,½•F,Æ•A,» ,è,É`è”Ó<ß,ç•  
ffbfNfX“à,İ•u•F•b•f•Ffb,İfNfX,È,³,è,Ü,•B

[•šŎ]\_fCfAf•ffbfNfX



OneKey fu,f%ofEfY,©Afu,f%ofEfB,f“fhfE,Å•A”¼Šp,Å“ü—Í,μ,½,Æ,«,ì,Ý—LCEø,Å,•B

[•Ž] f•fj.f.ì[fyt,fW,À'ãŽRff“fh,ì•Ý'è,Í•AOneKfay%fE,fY,É,Í“-«.,Ü,<sup>1</sup>,ñ•B

[Ž“@•fR]f“fk(lfvfvfififid)..•





fEfbf“fhfEEÅ—L, Ì•Ý’è, ð•s, Á, Ä, ç, È, çfEfbf“fhfE, É•V, µ, -fEfbf“fhfEEÅ—L, Ì•Ý’è, ð, µ, ½, ç•ê•‡, Í•A‘Î•Û, ÌfEfbf“fhfE  
[fIfvfVf‡ff]f, Ì[Ž©“@•fRff“fh, ðCEÄ, Ñ•o, µ, Ä, -, ¾, ¾, ç•B

f•fO,ìŽ©“@•í•œ

’•Ó



















'Ê•M'†, Ì•ê•‡•Aiff~fiffEfbf“fhfE, Í•Â, ¶, Ü, ¹, ñ•B

$[fE_f B f^{-1} h f E^{-1} \mathbb{Q}, \dots] f R f f^{-1} h [f E_f B f^{-1} h f E f j j] \dots \bullet$

















NifTerm ,ì,³,Ü,´,Û,È•”•ª,É,Â,ç,Ä,Ïfwžk,ix,ü,ñ,ßffçfó,ì%oE,Ïff^f“,ðfNfŠfbfN,.,é,ÆA,ñJfCf“,ÏE,ª-îó,Æ^  
-â•,,,ð’g,Ý•‡,í,¹,½,à,Ì,É•Ì,í,è,Û,•B,±,ÏfóQ,Ì,¼,À,Ïfçf“,É,Ç•ANifTerm  
,ÏEfbf“fhfE,Ì•”ª,ðfNfŠfbfN,.,é,Æ•A,»,Ì•”ª,E’I%ž,Zé,fç,fç,ñ,ª\

fVfÏfgfJfbfg

f\_fCfAf•ffbfNfX,ÉfCf•ffkf,a,è•Afhf%fbfO,μ,Ä^Ú“®,.,é,±,Æ,ª,Å,«,Ü,•B

$fXfNfffof$



*fLh*{*f*h: [Ctrl]+[F7]



[fAfcRf“%Rf”fkRf“fgff•fjD)..•































f f^c j, d l, n, A, -, 3/4, 3, c B

f E f B f f h f E, d S J, -

, ±, ê, ç, ì f E f B f f h f E f f A f C f f ð, 1/2, f T f r f X f f j f, ©, ç, î % ž, :, é • € - Ú, ð l, Ô, ±, Æ, É, æ, Á, Ä Š J, -, ±, Æ, à, Å, «, Ü, • B

f Z f C f N f f E f B f f h f E, d w ^



f}E}fX,`%E}“,đfNfŠfbfN,·,é,Æ,Ž,ž,ê•Afvf<f\_fEf“f{f}f,·,é;à,Ì,Ì,α,ç,-,Â,Œ;fRŽg,l,Û,•B

ft@fCf“]fX]ffXfo†





















,đfNfŠfbfN,·,é,Æ•A-ç“Ç,É-ß,·,±,Æ,ª,Å,«,Û,·•B

•ı””,İfAefBfNf<,İfN,đ^êŠı•İ•X,·,é

f•fZ””çfNfŠfbfN•đé•E•A•fA•fB•fN•f;•C•Đ•đ•Z•f•Đ•B•İ,í,è,Û,·•B

fAıfefBfNf<,đfefLfXfgftf@fCf<,É•o—Í,·,é

f•fZ””çfNfŠfbfN•đé•E•A•fA•fB•fN•f;•C•Đ•đ•Z•f•Đ•B•İ,í,è,Û,·•B

fLıfı•fıh,Åfuf%oEfU,đ•€ı,·,é

f f y " , ð f N f Š f b f N , . é j , Æ Ž © " © " I , É Š J , « , Ü , • B

f z f X f g , ð f f b f N f X , É • Ů • ¶ , ³ , ê , Ä , ð , Æ , í • A f f C f g f < , ì • O , É • v f f f N , ³ • Ž , ³ , ê , Ü , • B , ± , ê , ð • I • ð , μ , Ä f @ , f N f Z f X ]  
f • f j f , Ì [ f \_ E f [ f f - ã ] , ð • s , ð , ± , Æ , É , æ , è • A f z f X f g , © , ç , í • Ü , • B

f z f X f g , É — , ß , ç , È f é j • • , É , Í Ç È À , è , ¸ , ç , ð , f f b f N f X f <











•Ā•½ĈfZĭ”Ā,đ•í•œ,.,é



ffY“, ðfNfŠfbfN, ., é•j, ÆŽ©““I, ÉŠJ, «, Ü, •B

fYcfgf<, ÌEã, è, ì”Žš, Í•A, », ÌID, <sup>a</sup>, », ÌC, Ìf, ÌÁ, <sup>a</sup>, ½f•fbfZfW, Ì, <sup>a</sup>, Ì, %½”Ô–Ú, Ì, à, Ì, Å, , é, ©, ð\  
, µ, Ü, •B“-, ¶ID, <sup>a</sup>-, ¶“ú, É“-, ¶f, ¶gf<, Å, Q, Å, Ì, ¶W, ZfAfbfv, µ, ½•è•‡•A•Å•%o, Ì, à, Ì, <sup>a</sup>, P•AZÿ, Ì, à, Ì, <sup>a</sup>, Q, É, È, è, Ü, •B

f!fHf%of€'I'ðfEfBf“fhfE

'á%ð'œ“x,ÌfVfXfef€Å•A.fE%Bf“fhfEi,è,ç,È,ç,Æ,«,Í•A•Ý'è,ð•İ,!,Ä





















































•Y,μ,È,çfHf€,-¼‘O,ÍŽw’è,μ,È,ç,Á,-fçfBfHfBfg,ªEë“©i,μ,Ü,•B

fHf•

[f%of€É,æ,Á,Ä,ÍŽÀ-¼^ÈŠO,Ìfnf“fhf<ð”F,ß,Ä,ç,È,ç,Æ,±,ë,ª,è,Ü,•B,Æ,è,!,ŽÀ-¼,Á“ü%öi,μ,Ä,“,«•A,Æ,Áfnf“fhf<ð

“Ç,ÝŽæ,è,ÉŽg—p,•,éID

,±,İ•€-Ú,đf`fFfbfN,·,é,Æ•AN,fiFerm½ftfH%of€-¼,İffBfEfNfgfŠ,İ%°,İ,·,×,Ä,İftf@fCf<,ªí•œ,³,ê,Ü,•B

[fnf“fhf\_l]fCfAf•ffQbfNfX

fzff€ffefB,lfnf“fhf<,lfzffXfg,É•Ý`è,³,è,é,à,ì,Å,Í, ,è,Ü,¹,ñ•B,ø•Ý`è,¾,è,†NifTerm  
,Ì•Ý`è,³,ì•X,³,è,é,¾,-,Å,•Bffz€ffefB,ì•è,†,Í“Ç,ÝŽæ,ø¹,Ô,±,Æ,Í,Å,«,Ü,¹,ñ•B

[fnf“fhf<•Ý`è]CfAf•ffQbfNfX

NifTerm, ÍÈ%°, ÌÊ•‡%öi<cŽ°, ÌÂ•½, ð" FŽ̄, μ•A%öi<cŽ°ê—, É•ufzfXfg‘ϣ, Â•Â•Ž̄, μ•Ü½•B̄i<cŽ°•v, Æ, μ, Ä\

•E f•fO, a, , é•A, Ü, ½, Í•, ,%oñ, μ, ½, ±, Æ, a, , é%öi<cŽ°, Â, , è, È, a, ç•A fzfXfg‘ϣ, Ì%öi<cŽ°ê—, É, Ì, Á, Ä, ç, È, ç, à, Ì

NifTerm, ÍÈ%°, ÌÊ•‡, É%öi<cŽ°[fAšffj, é, ½, Æ" FŽ̄, μ, Ü, •B

•E•O%oñ, » , Ì%öi<cŽ°, ðfAfNfZfX, μ, ½, Æ, «, æ, Ž̄•Q, Á, Ä, ç, È

%öi<cŽ°, a fšffj...•

[fA f<, 3, é, Ä, ç, é•Ê•‡•A%öi<cŽ°ê—, Ì%°, Ì•û, É•o, Ä, ç, é“”•Ô, Ì, à, Ì, a, à, Æ, Ì%öi<cŽ°, Â, •, Ì, Â•A, à, Æ, Ì%öi<cŽ°, ð•€•ì, μ, ½, ç, Æ, «, Ì  
{fA f“ , ð%Y, μ, Â•A•½, Ì•^u, ð, μ, Ä, -, ¾, 3, ç•B

ÆÄ, ç%öi<cŽ°, É•Î, μ, Ä•u%öi<cŽ°•Â•½•v, Ì•^u, ð, •, é, Ü, ÂNifTerm, Í, » , Ì%öi<cŽ°, ÉfAfNfZfX, μ, Ü, 1, ñ•B, ±, é, Í•V•(É, Ì•Ê%öi<cŽ°, Ž̄, Ž̄



ffʹʹ,đfNfŠfbfN,·,é·j,ÆŽ©ʹʹʹI,ÉŠJ,«,Ü,·B

f%ofCfufE%Bš“fhfE

f f f “, ð f N f š f b f N, ·, é · j, Æ Ž © “ © “ I, É Š J, «, Ü, · B

,”m,ç,l’E’fB’f“’fh’fE

f’f’f“’,đ’f’N’f’š’f’b’f’N’,:’é’j’,Æ’Ž’©“‘‘‘I,É’š’J,«,Ü,•B

ftfHf%of€CfZi"ÂfEfbf"fhfE

flfY",ðfNfŠfbfN,·,é·j,ÆŽ©"©"I,ÉŠJ,«,Ü,·B

fYcfgf<,ìEã,ë,ì"Žš,í·A,»,ìID,<sup>a</sup>,»,ìCfē,ìK\*,ç½f·fbfZ·W,ì,ç,ì%½"Ô-Ú,ì,à,ì,À,·,é,©,ð\  
,μ,Ü,·B"·,¶ID,<sup>a</sup>·,¶"ú,É"·fCf<,À,Q,Â,ìfWfZfAfbfv,μ,½·ê·‡·A·Â·%o,ì,à,ì,<sup>a</sup>P·AZÝ,ì,à,ì,<sup>a</sup>Q,É,È,è,Ü,·B

fztf€ffefB'I'ðfEfBf“fhfE















[f·U·ñ]f\_CfAf·fGbfNfX





ffftfefBffu, ìffz€ffp efB, ìfCf g f <, Ífnf“fhf <, Æ‘g, Ý•‡, í, 1, Ä, S, OCE...•i”¼ŠpŠ·ŽZ·j, ÉŽû, ß, é•K—v, a, , è, Û, •B, » , Ì, ½, ß•A, ±, Ì < @  
, É, Í

fpfXjfh"ñŽl,đ•Ý`è,μ,Ä,ç,é•é•‡,É,Íž•ñ,Æ,ÌŽ,Ÿ,ê“ü—Í—“,Í•o,Û,¹,ñ•Bffh,Ÿfñ—Í,.,é•é•‡,Í•A•u”ñ\  
Ž!•v,Ì—×,Ì•u“ffñ,ŸffNfŠfbfN,μ,Ä,-,¾,³,ç•B  
fnf“fhf<







ffʹʹ,đfNfŠfbfN,·,é·j,ÆŽ©ʹʹʹʹI,ÉŠJ,«,Ü,·B

*fpfefBfI'I'ðfefBf“fhfE*















[f·U·ñ]f\_CfAf·fGbfNfX



NifTerm, Å•Å•%, É•Ůžg, @, Ě, «, Í•A, Ü, , •AfzfXfg‘¤, ÌfpfefB, fŮŽ, Ý, ÌŮ, Å, , é

Ž©<sup>a</sup>, Žã•Ã, μ, Ä, ç, éfpfefBfI`ÈŠO, ÌfpfefBfI, fŮŽã•Ž©, ÌID, Ä, f, ç, éID, Æ`ê'v, μ, È, ç, à, Ì•j, ð•HãŽãf•  
f“, <sup>a</sup>%Ÿ, <sup>1</sup>Ü, <sup>1</sup>ñ•BŽ©<sup>a</sup>, ÌfpfefBfk, ŮŽãf, Ä, ©%Ÿ, μ, Ä, -, <sup>3</sup>/<sub>4</sub>, <sup>3</sup>, ç•B—\  
-ñ, Í•A, », ÌfpfefBfI, ðŽã•A, μ, Ä, ç, é, <sup>2</sup>Ž©<sup>a</sup>, ÌID, ÄfAfnfZfX, μ, <sup>1</sup>/<sub>2</sub>, Æ, «, ÉŽÀ•s, <sup>3</sup>, ê, Ü, •B

fpfefBfI,ÉfAfNfZfX,μ,½•l•ifQfXfg,j,Îê——,đŽæ“¾,.,é

Žã•ÃŽÒ,ªfzfXfg‘¼,ÌfpfefBfI,ÌSE7HÄFRGUEST·\  
Ž|•v,đ•u•s,í,È,ç•v,É•Ý’è,μ,Ä,ç,é•ê•†•AŽã•ÃŽÒ`ÈŠO,Î•l,ªfQfXfg,đ“Ç,ÝŽæñŽ,À,šŽž,È,•u,Ÿ•é,Í,Î@Ÿ\  
{fpfefBfI,Ä,Í,²—~—p,Ä,«,Û,¹,Ĥ•VŽ,Ì,Ç,Ÿ%ß

“Ç,ÝŽæ,Á,½fQfXfg,ÌĐeđ“•@,v,^,•

“Ç,ÝŽæ,è,đ•s,¼,Æ‘O%õñ“Ç,ÝŽæ,Á,½fQfXfg,Îê——,Í•ã•‘,«,³,ê,Ä,ç,é,éÛ,Ÿ•ç,È,ç,Ÿ,ç,è“\  
[,•,é,©,μ,Ä•Û•¶,μ,Ä,“,ç,Ä,-,¾,³,ç•B







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fNf“„,ðfNfŠfbfN,·,é•j,ÆŽ©“©“I,ÉŠJ,«,Ü,•B

—¿àâ•ñ,ì•,,%oñ•ÝjlvAVf‡ffjlf,ì[•,,%oñfIfvfVfRff“fh,Å•s,ç,Ü,•B

fNfŠfbfsffTQrfX‘I’ðfEfBf“fhfE

,Í,¶,ß,ÑifTerm ,ÅfNfŠfbfsffTfO

[frfX,Ì,%,ñ•Ý’è•A“Ç,ÝŽæ,è,ð•s,π‘O,É•AfzfXfg,É•Ý’è,µ,Ä, ,ézfz<f\_¼,ð“Ç,ÝŽæ,é•K—v,<sup>a</sup> ,è,Ü,•B,Ü,½•Afzf<f\_,ðzfzX  
fzfXfg,lfzf<f\_,Ì•Ý’è,â%0NofTæinX,lfIfgpfCf•fbfg,Á,Í,Á,«,Ü,<sup>1</sup>,ñ•BŽè“@,Á•s,Á,Á,-,¾,<sup>3</sup>,ç•B













ffʹʹ,đfNfŠfbfN,·,é·j,ÆŽ©ʹʹʹʹI,ÉŠJ,«,Ü,·B

f v f • f t f B • f E f B f “ f h f E

f f f “, ð f N f Š f b f N, : , é • j, Æ Ž © “ “ I, É Š J, «, Ü, • B

f v f • f t f B • Í • Av, ^, • • f, ;, v, ^, •

ffʹʹ,đfNfšfbfN,·,é·j,ÆŽ©ʹʹʹI,ÉŠJ,«,Ü,·B

“à‘ fGffBf^

f f f f “, ð f N f Š f b f N, μ, ñ, Å m” F f \_ f C f A f • f Q b f N f X, ð Š J, <, Ü, • B

^ê“x—ñ, μ, ½ f e f L f X f g, ð • C • 3 †, É • A • C • 3, ð Ž æ, è, â, ß, ½, ç, Æ, «, Í • A < • Ò (W) L, ð f N f Š f b f N, μ, Ü, • B  
—ñ, ð Ž æ, è • Á, μ, ½, ç, Æ, «, Í, Å k f f f “ f Z f f f “, ð f N f Š f b f N, μ, Ü, • B

f e f L f X f g, ð “ü—Í, ., é, Æ • A Ž © “ @ “ I, É È % °, É, Â, ç, Ä f f F f b f N, μ, Ü, • B f f F f b f N f F v, V, f, ç, Å, Ì, ½ “ • a, Í • Ô • ¶ Ž š • i • F, Í  
[ f E f B f “ f h f E • E • F • E f f H R f f h

f j f t f e f B f f t, É f A f b f v, ., é f e f L f X f g, Í • A, P • s, Ì • 3, a “ ¼ Š p, V, X • ¶ Ž š • i “ Š Š p, R, X • ¶ Ž š • j, ð % o z, Ì, È, ç, æ, ð, É, 2’ • Ó, -, ¾, ¾, ç • B  
• © E , É, æ, è % ü • s, μ, ½ • s, Í • s —, É % ð • s • i • ç, Ì, ñ • a f G f f B f s, a, Í, í, Á, Ä \  
Ž, ¾, è, é, Æ, ±, è, Í f A f b f v Ž Ž, È % ü • s, ¾, è, Ü, ., Í, Á, Ä f E f v ü • s i ñ : } • K — v, Í, , è, Ü, 1, ñ • B “ à ‘ f G f f B f ^  
Ž, ¾, -, Ì • Ü, è • Ó, μ, Ì, μ, Ü, 1, ñ, Ì, Å E ©, ½ — Ü, Á ” »’ f, μ, Á • ä • v, Á, • B

f L f f [ f h, Á, Í “ à ‘ f G f f B f ^ f f “, Í f N f Š f b f N, Å, «, Ü, 1, ñ, Ì, Å Š, Ä, Ä, é [ O f © f C f f f j f f • A f • Ó • W J • f j f ... •  
[, É, , é “ , ¶ — ¼ • O, Ì • € — Ü, ð • I, ñ, Å, -, ¾, ¾, ç • B

f j f E f X, Ì % E f “, ð f N f Š f b f N, ., é, Æ • A Ž J f, è • A f v f < f \_ f E f “ f f f f ., é, à, Ì, Ì, ð, ç, -, Á, © : f R Ž g, Ì, Ü, • B

[Ex•]\_fCfAf•ffQ'bfNfX

















f f y " , ð f N f Š f b f N [ f - Ä Š a " F f \_ f C f A f • f Q b f N f X , ð Š J , ç , Ä , - , ¾ , ¾ , ç • B

”Ô•†,ð•³,μ,-Žw’è,μ,Ä,-,¾,³,ç•B





















