



@PRTwin ft[fU[fYf}fjf...fAf< -ÚŽŸ

fjf...[‘€  
@yftf@fCf<Z  
@yfXf^fCf<Z  
@y^óúZ  
@yflfvVf+f“Z  
@yfwf<fvZ

i%œ-Ê, à-¾  
@fCf“fEfCf“fhfE  
@f^fCf<fo  
@fXfNf[f<fo  
@fc[f<fo

i<N“@Žž,ižw’è  
@^óúftf@fCf<,ižw’è  
@^óúfXf^fCf<,ižw’è

□yftf@fCf<□z

^È%º,ìfRf}f“fh,ª‘l’ð%ºÁ”\,Å,·□B

□mftf@fCf<l’ð□n

□mfNfŠfbfvf{□[fh□n

□mfXf^fCf<ÆÁ□o□n

□mfXf^fCf<•Ú’□n

□m□l—¹□n

## mfjf@fCf<'l'ðn

^óüftf@fCf<,ð'l'ð,·,éf\_fCfAf[]fOf{fbfNfX,ª•\Ž!,³,è,Ü,·[]B^óü,μ,½,çftf@fCf<,ð'l,ñ,Å [Š],] f{f^f“,ð  
%oÿ,·,Æ[]A,»,lfjf@fCf<,ª^óüftf@fCf<,Æ,μ,Ä“o~^,³,è,Ü,·[]B[]%oŠúfffBfÇEfNfgfŠ,í[]A'O  
%oñ'l'ðŽž,iffBfÇEfNfgfŠ,Æ,È,è,Ü,·[]B,Ü,½[]A[]mfXf^fCf<•Ü'¶[]n,í[]€-  
Ú,ÅSÖ~A•t,~ftf@fCf<,ªŽw'è,μ,Ä, ,é[]ê[]#[]Aftf@fCf<,iŽí—p,Æ,μ,ÅSÖ~A•t,~ftf@fCf<,ª'l'ð,³,è,Ü,·[]B

## mfNfŠfbvf{[fh

fNfŠfbvf{[fh,í"à—e,đftf@fCf<,É' ,«ž,ÝA^óüftf@fCf<,Æ,μ,Ä"o~^,μ,Ü,·B',«ž,pftf@fCf<-  
¼,í ~PRTCLIP.TMP ,ÄAŠÄ««·í" TEMP  
,³Ý"è,μ,Ä, ,ééê#A,»,ífffBfÆfNfgfŠä,Éì¬,³,ê,Ü,·B,½,¾,μAftf@fCf<,É' ,«ž,β,é"à—e,í  
64kB ^È"à,ífTfCfY,ífefLfXfg,ÉÆA,è,Ü,·B

mfXf^fCf<CEÄo

fEfWfXfgfŠ,É•Ů'¶,μ,Ä, ,éfXf^fCf<,ðCEÄ,Ño,μ,Û,·BfŠfXfgf{fbfNfX,©,çCEÄ,Ño,μ,½,çfXf^fCf  
<-¼,ð'l'ð,μ,Ä,,¾,¾,çB[OK] f{f^f“,ð%Ÿ,·,ÆA,»,lfXf^fCf<,ðCEÄ,Ño,μA<ufXf^fCf<zfj...  
[,İSefpf%of[f^,ð•íX,μ,Û,·B,È,“ACE»Ÿ,lfXf^fCf<,ª•íX,¾,é,Ä,ç  
,éê¶,É,í,»,lfXf^fCf<,ð•Ů'¶,·,é,©,Ç,æ,©,ì-â,ç¶,í,<sup>1</sup>,<sup>ª</sup>, ,è,Û,·B

mfXf^fCf<•Ú'¶n

Œ»Ÿ,lfXf^fCf<,dfŒfwfXfgfŠ,É•Ú'¶,µ,Ü,•B•Ú'¶,µ,½,č^Ê'u,dfŠfXfgf{fbfNfX,©,ç'l'ð,µA[OK]  
f{f^f",ð%Ÿ,µ,Ä,,¾,¾,çB•Ú'¶lfXf^fCf<-¼,lfGfffBfbfgf{fbfNfX,ÅfXf^fCf<-¼,ð•ÍX,;é,±  
,Æ,à,Ä,«,Ü,•B•Ú'¶,Ä,«,éXf^fCf<¶",Í%ŠúóÔ,Ä,Q,ŒÄ,Ü,Ä,Ä,•B•Ú'¶%Ä"\  
,ÉfXf^fCf<¶",Ívflfvfvff"z¶jf...¶[,Ä•ÍX,;é,±,Æ,¾,Ä,«,Ü,•B

,Ü,½ŠÖ~A•t,~ftf@fCf<,lfGfffBfbfgf{fbfNfX,Åf¶fCf<fhj¶[fh,ðŠÜ,ß,Äftf@fCf<,lfpf^¶[f",ðŽw'è,;é,±  
,Æ,¾,Ä,«,Ü,•B•i;¶",lftf@fCf<,ðŽw'è,;éŽž,lfZf~fRf¶";  
,Ä<æ¶Ø,è,Ü,•B<N" @Žž,l^ø¶",Æ,µ,ÄŽw'è,¾,é,½ftf@fCf<¶A, ,é,ç,lfhf  
%ofbfO¶fhf¶fbfv,ÄŽw'è,¾,é,½ftf@fCf<,¾,±,ìŠÖ~A•t,~ftf@fCf<,lfpf^¶[f",Æ^è'v,;éŽž¶A,±  
,lfXf^fCf<,ðŽ©" @ "l,ÉŒÄ,Ñ¶o,µ,Ü,•B

¶¶@—á¶Šg'£Žq,¾ .TXT ,lftf@fCf<,ÄŽ©" @ "l,ÉfXf^fCf<,ðŒÄ,Ñ¶o,•ê¶

¶¶@¶@¶@ŠÖ~A•t,~ftf@fCf<¶F\*.TXT

¶¶@—á¶Šg'£Žq,¾ .C ,Ü,½,Í .H ,lftf@fCf<,ÄŽ©" @ "l,ÉfXf^fCf<,ðŒÄ,Ñ¶o,•ê¶

¶¶@¶@¶@ŠÖ~A•t,~ftf@fCf<¶F\*.C;\*.H

□m□l—<sup>1</sup>□n

**PRTwin** ,đ□l—<sup>1</sup>,μ,Ü,·□BCE»□Ý,ìfXf^fCf<,É•ï□X,<sup>a</sup>, ,é□ê□‡,í□A•Û'¶,·,é,©,Ç,α,©,ì-  
â,φ□‡,í,<sup>1</sup>,<sup>a</sup>, ,è,Ü,·□B□l—<sup>1</sup>Žž,Éf□fCf“fEfCf“fhfE,ì^É'u,ÆfTfCfY□Afrf...  
□[fA,ìfTfCfY,È,Ç,đfCEfWfXfgfŠ,É<L%°<sup>-</sup>,μ,Ü,·□B

□yfXf^fCf<□z

^È%º,ìfRf}f“fh,ª‘l’ð%ºÁ”\,Å,·□B

□mfĈfCfAfEfg□n


□mftfHf“fg□n

□mfwfbf\_□Eftbf^□n

□mfvfŠf“f^□Y’è□n



## □mftfHf“fg□n

ftfHf“fg,đ'ı'đ,·,é\_fCfAf□fOf{fbfNfX,<sup>a</sup>•\Žı,<sup>3</sup>,ê,Ü,·□BftfHf“fg-¼□AfXf^fCf<□AfTfCfY,đ'ı'đ,μ,Ä **[OK]**  
f{f^f“,đ%oÿ,μ,Ä,<sup>3/4</sup>,<sup>3</sup>,ç□BftfHf“fg-¼,ı“<sup>a</sup>,É□—,<sup>a</sup>•t,ç,<sup>1/2</sup>,à,ı,ı□c□',«—p,ıftfHf“fg,Å,·□B,Ü,<sup>1/2</sup>   
,ıf}□[fN,ı•t,ç,<sup>1/2</sup>ftfHf“fg,ıfvfŠf“f^ftfHf“fg,Å□A,±,ê,đŽw'è,·,é,ÆfvfŠf“f^,ıftfHf“fg,đ—~—  
p,·,é,ı,Å^ó□ü,<sup>a</sup>□,‘—,É□s,ı,Ü,·□B

mfCfCfAfEfgn

^óüfCfCfAfEfg,ðý'è,.,éf\_fCfAfOf{fbfNfX,<sup>a</sup>•\Zl,<sup>3</sup>ê,Ü,·B,±,±,Å,ÍA^È%<sup>o</sup>,ìpf%<sup>o</sup>f[]f^,<sup>a</sup>•íX  
%<sup>o</sup>Å"\,Å,·B

- @.P[]s•¶Žš"
- @.Pfy[]fW[]s"
- @•¶ŽšSÖŠu
- @[]sSÖŠu
- @f^fu^Ê'u
- @[]â'f}[]fWf"
- @[]¶'f}[]fWf"
- @'i'g^óü
- @'iSÖf}[]fWf"
- @—¼-Ê^óü
- @ftfHf"fg
- @fwfbf []Eftfbf^
- @fvfŠf" f^[]Ý'è
- @—¼^óŽš^Ê'u•â<sup>3</sup>

š'[]Ó[]F%<sup>o</sup>'[f}[]fWf"[]A%<sup>o</sup>E'[f}[]fWf",<sup>a</sup>f}fCfifX,ì'l,É,È,ç,È,ç,æ,æ,É[]Ý'è,μ,Ä,,¾,<sup>3</sup>,ç[]B

**,P□s•ŕŽš□”**

,P□s,É^ó□ü,·,é•ŕŽš□”,đ”¼Šp•ŕŽš□”,Å□Ý’è,μ,Û,·□B’A,μ□A•ŕŽšfsfbf` ,ªCEÅ’è,Å,È,çftfHf“fg,ÅfWjff  
XfefBftfBfP□[fVf†f“,đŽw’è,μ,Ä,ç,é□é□#□A,±,i□Ý’è,í-³CEø,Æ,È,è,Û,·□B

**,Pfy[]fW[]s[]”**

,Pfy[]fW,É^ó[]ü,·,é[]s[]”,đ[]Ý’è,μ,Û,·[]B

•**ŹšŠŮš**

•Źš,Æ•Źš,ìŠŮ,ìfXfy[]fX,ðfhfbfg'P^Ê,ÅŸ'è,μ,Û,·B'SŠp•Źš,ìŠŮ,í,Q" {,ìfXfy[]fX,<sup>a</sup>ó,«,Û,·B,  
½,¾,μ[]AfWfffXfefBftfBfP[]fVf†f"Žw'èŽž,É,í-³Æø,É,È,è,Û,·B

□sŠÔŠu

□s,Æ□s,İŠÔ,İfXfy□[fX,đ 1/10 f~fŠ'P^Ê,Å□Ý'è,μ,Û,·□B

**f^fu^Ê'u**

f^fu^Ê'u,đ"¼Šp•¶Žš",ÅÝ'è,μ,Û,·B

## Ā{f}fWf

—pŽt, Ā{f}fWf, đf~fŠ'P^Ê, ĀÝ'è, μ, Û, ·BŽÀÛ, Ā—  
pŽtf}fWf, Æ^è'v, μ, Ê, çé#A m óžšā' [•â³n, É“K³, È'l, đÝ'è, μ, Ä%º, ³, çB **m ©'t**  
**%o>“n**, ĩf{f^f“, đ%Ÿ, ·, ÆAfefLjXfg, ā%º•ûŒü, l'†%o>, É—^, é, æ, ɣ, Éā{f}fWf, Æ  
%º'f}fWf“, ā²®³, ê, Û, ·B



## ¶¶[f]¶[fWf]“

—pŽt,ì¶¶[f]¶[fWf]“,đf~fŠ’P^Ê,Â¶Ý’è,μ,Û,·¶BŽÀ¶Û,ì—  
pŽtf}¶[fWf]“,Æ^ê’v,μ,Ê,ç¶ê¶¶A¶m^óžš¶¶[f]¶[fWf]“,É“K¶³,È’l,đ¶Ý’è,μ,Ä%°³,³,ç¶B¶m¶©’t  
%°>¶“¶n,lf{f^f“,đ%°ÿ,·,Æ¶AfefLfXfg,³¶¶%°E•ûCEü,ì’+%°>,É—^,é,æ,æ,É¶¶[f]¶[fWf]“,Æ  
%°E’[f]¶[fWf]“,³²¶®³,é,Û,·¶B,Û,½¶A¶m<ô¶“fy¶[fW,Â¶¶  
%°Ef}¶[fWf]“,đ<t¶n,đf`fFbfN,·,é,Æ¶A<ô¶“fy¶[fW,É,“,ç,Â¶A¶¶  
%°Ef}¶[fWf]“,đ“ü,ê’Ö,!,Ä^ó¶ü,·,é,±,Æ,³,Ä,«,Û,·¶B

'i'g^oü

□cŠ,,è'i'g^oü,ì'i",ð,P'i,©,ç,S'i,Ü,Å'I'ð,μ,Ü,·□B

'iŠÔf}[]fwf“

'i'g^óü,Å'i",ª,Q'i^Èä,ì,Æ,«A,»,ê,¼,ê,ì'i,ìŠÔ,ìf}[]fwf“,đf~fŠ'P^Ê,ÅÝ'è,μ,Ü,·B

—¼-Ê^óü

—¼-Ê^óü,đs,ç,©,Ç,ç,©,đÝ'è,μ,Û,·B[mŠi]"<ô"n,đ'l'đ,μ,½ê#AÅ%  
,ÉŠi"fy[fW,¾,¯,đ^óü,μA—pŽt"½"],l-â,ç#,í,<sup>1</sup>,<sup>a</sup>, ,è,Û,·B,»,lĚãA<ô"fy[fW,¾,¯,đ^óü,μ,  
Û,·B[m<ô"Ši"n,í,» ,l<t,Å,·B

## ^óžš^É'u•â³

f v f š f " f ^ , É , æ , Á , Ä , í f f j f ... [ , Ā Ž w ' è , μ , ½ [ 1 % ° E [ E [ ä % ° ° , } f } [ f W f " , a ž À [ Ű , } f } [ f W f " , Æ , , , é , é [ é [ † , a ,  
è , Ű , · [ B , » , } [ é [ † [ A [ ä ' [ [ A , " , æ , Ń [ 1 ' [ , Ā ^ ó ž š ^ É ' u , ð • â [ ³ , , , é , ± , Æ , a , Ā , « , Ű , · [ B

## [m^óžš[ä'[•â³]n

[ ä ' [ f } [ f W f " , } [ Ÿ ' è , a ž À [ Ű , } [ ä ' [ f } [ f W f " , Æ " - , 1 , É , È , é , æ , x , É - p ž t [ ä ' [ , } [ ó ž š , ³ , é , È , † -  
í ^ æ , } [ • [ , ð f ~ f š ' P ^ É , Ā [ Ÿ ' è , μ , Ű , · [ B [ Ā [ % °  
 , É [ ä ' [ f } [ f W f " , Æ ^ ó ž š [ ä ' [ • â [ ³ , ð , » , é , ¼ , é , O , É , μ , Ā ^ ó [ ü , ³ , } [ A , » , } [ ž ž , } [ - p ž t , } [ ä ' [ , } [ - ] " " , ð ' a ' è , μ [ A , ±  
 , } [ l , ð ^ ó ž š [ ä ' [ • â [ ³ , Æ , μ , Ā [ Ÿ ' è , μ , Ű , · [ B

## [m^óžš[1'[f}[fWf"]n

[ 1 ' [ f } [ f W f " , } [ Ÿ ' è , a ž À [ Ű , } [ 1 ' [ f } [ f W f " , Æ " - , 1 , É , È , é , æ , x , É - p ž t [ 1 ' [ , } [ ó ž š , ³ , é , È , † -  
í ^ æ , } [ • [ , ð f ~ f š ' P ^ É , Ā [ Ÿ ' è , μ , Ű , · [ B [ Ā [ % °  
 , É [ 1 ' [ f } [ f W f " , Æ ^ ó ž š [ 1 ' [ • â [ ³ , ð , » , é , ¼ , é , O , É , μ , Ā ^ ó [ ü , ³ , } [ A , » , } [ ž ž , } [ - p ž t , } [ 1 ' [ , } [ - ] " " , ð ' a ' è , μ [ A , ±  
 , } [ l , ð ^ ó ž š [ 1 ' [ • â [ ³ , Æ , μ , Ā [ Ÿ ' è , μ , Ű , · [ B

**mfwbf\_Eftbf^n**

fwbf\_Eftbf^,È,Ç•t%Á<@”\,ðÝ’è,.,éf\_fCfAfOf{fbfNfX,<sup>a</sup>•\  
Ž,³,ê,Û,·Bfwbf\_Eftbf^,iY’è,ð,·,é,½,β,É,ífwbf\_Ý’èA,¨,æ,Ñftbf^Ý’è,íf{f^f“,ð%ÿ,μ,Ä,-  
,¾,³,çB,±,±,Ä,íA’¼,É^È%º,i<@”\,ìl’ð,ðs,±,±,Æ,<sup>a</sup>Ä,«,Û,·B

- @fwbf\_^óü
- @ftbf^\_óü
- @s”Ót
- @<Ö’¥^—
- @f[]fhf%fbfsf“fO
- @fWfffXfefBftfBfP[]fVf±f“
- @fefLfXfg~g^óü
- @Erü~A’±^—

## fwfbf\_^óü

fy[]fW,ì[]ä•”,Éfwfbf\_,ì^óü,ð,·,é,©,Ç,α,©,ì[]Ý’è,ð[]s,ç  
,Ü,·[]B,Ü,½[]m<ô[]”fy[]fW,Äfwfbf\_[]Eftfbf^,ð[]¶%E<t[]n,ðf`fFfbfN,·,é,Æ[]A<ô[]”fy[]fW,É,“,ç  
,Äfwfbf\_,ì[]¶%E,ð“ü,ê’Ö,!,Ä^óü,·,é,±,Æ,ª,Å,«,Ü,·[]B

## ftbf^óü

fy[fW,ì%º•”,Éftbf^,ì^óü,ð,·,é,©,Ç,æ,©,ìÝ’è,ðs,ç  
,Ü,·B,Ü,½m·ô”fy[fW,Áfwbf\_Éftbf^,ð1%E<tñ,ðf`fFbfN,·,é,ÆA<ô”fy[fW,É,·,ç  
,Áftbf^,ì1%E,ð“ü,é’Ö,¡,Á^óü,·,é,±,Æ,ª,Á,«,Ü,·B



□s"Ô□t

□s"Ô□t,đ^ó□ü,·,é,©,Ç,ꝥ,©,đŽw'è,μ,Û,·□B,·,é□ê□#□A□s"Ô□t,đ%ü□sfR□[fh,Û,Å,đ,P□s,Æ,·,é~\_—  
□□s,ì□¶'[,É^ó□ü,·,é,©□ASe^ó□ü□s,ì□¶'[,É^ó□ü,·,é,©,đ'l'đ,Å,«,Û,·□B

## fejLfxfg~g^óü

^óžš,³,ê,éfejLfxfg,ìŠO'α,ðÆErü,Å^í,p,©,Ç,α,©,ìÝ'è,ðs,ç,Ü,·B'i'g^óüžž,ÍŠe'i-  
^,ÉÆErü~g,ð^óü,μ,Ü,·B

## □m—]”□n

fejLfxfg,ÆÆErü~g,Æ,lf}□[fWf“,ðf~fŠ'P^Ê,ÅÝ'è,μ,Ü,·B

## □mü•□n

ÆErü~g,ìü•□,ðfhfbfg'P^Ê,ÅÝ'è,μ,Ü,·B

## □mŠp,ðŠÛ,β,é□n

ÆErü~g,ìŽI<÷,ì—]”,ì••a,ðŠÛ,β,Å^óü,·,é,©,Ç,α,©,ðÝ'è,μ,Ü,·B

**Erü~A'±^—**

Erü•Źš, ðã%°ŹŹ%°E, ð~A'±, μ, Ä^óü, <sup>3</sup>, <sup>1</sup>, é, ©, Ç, ɣ, ©, ðŸ'è, ðs, ç, Ü, ·B, <sup>1</sup>/<sub>2</sub>, <sup>3</sup>/<sub>4</sub>, μA~A'±^—  
ð, ð'ÍÛ, Æ, È, é, ð, ðV, i, h, rErü, ð, Ý, Å, ·B

**m×Erü•n**

×, çErüftfHf"fg, ðü•, ðfhfbfg'P^Ê, ÅŸ'è, μ, Ü, ·B

**m<sup>3</sup>/<sub>4</sub>Erü•n**

<sup>3</sup>/<sub>4</sub>, çErüftfHf"fg, ðü•, ðfhfbfg'P^Ê, ÅŸ'è, μ, Ü, ·B

◀Ö'¥□^—□

□s“<sup>a</sup>□A□s-- ,Å<â“Ç“ \_□A,¨ ,æ,ÑŠ†CEÊ,É'î,µ,Ä'SŠp□A”¼Šp,» ,ê,¼,ê,P•¶Žš•<sup>a</sup> ,î<Ö'¥□^—□,ð□s,ç ,Û,·□B,½,¾,µ□A□f□□[fhf%ofbfsf“fOŽw'èŽž,É,î<Ö'¥□^—□, <sup>a</sup>□<sup>3</sup>□í,É□s,í,ê,Ê,ç□é□†,<sup>a</sup> ,è,Û,·□B

## f[]fhf%fbfsf“fO

%op•¶fefLfXfg,È,Ç,É,Î,μ,Äf[]fhf%fbfsf“fO,ì^—,đŽ{,μ,Û,·B,Â,Û,èA~A'±  
,μ,½”¼Šp•¶Žš,©,ç¬,é'PCEê,ªs,đ,Û,½,®,æ,κ  
,Éê#A,»,'PCEê,đŽŸ,ìs,É^Û,μ,Û,·B,½,¾,μA'PCEê,Æ'PCEê,ìæ∅,è,ÆCE©,È,³,ê,é,ì,"¼ŠpfXf  
y[]fX ' ' ,Æ”¼ŠpfnfCftf“ ' - ' ,¾, ¯,Ä,·B

## fWfffXfefBftfBfP[fVf+f“

%op•¶fefLfXfg,Éî,µ,Äf[fhf%fbfsf“fO,É,æ,Á,ÄfefLfXfg,ì  
%oE[,ªµ,í,È,çê±,ÉA’PCEê,Æ’PCEê,İŠŌ,É“K”-,ÉfhfbfgfXfy[fX,ð’}“ü,µ,Äs’[,ª,ê,È,ç,æ,κ  
,É,µ,Û,·B,±,ì<@“\,íf[fhf%fbfsf“fO,Æ”-Žž,ÉŽw’è,µ,Ä,,¾,¾,çB

## mfwfbf\_ìÝ'è

fwfbf\_ìÝ'è—p,ìf\_CfAf{fbfNfX,a•\  
Ž!,<sup>3</sup>,ê,Ü,·BfwfBF,Æ,μ,Å^óü,μ,½,ç'Ž®,ðfwfBF\_Ž®,É<Lq,μ,Ü,·B

## mfwfbf\_f}[fWf"n

fwfbf\_,©,çfefLfXfg,Ü,Å,ìfXfy[fX,ðf~fŠ'P^Ê,ÅìÝ'è,μ,Ü,·B

## mErü

fwfbf\_,Ém%°üA, ,é,ç,í<sup>m^í,Ý~</sup>g,ìErü,ð^ø,,©,Ç,π,©,ðŽw'è,μ,Ü,·B

## mErü•

%°üA, ,é,ç,í^í,Ý~g,ìErü,ü•,ðfhfbfg'P^Ê,ÅìÝ'è,μ,Ü,·B

## mftfHf"fg

fwfbf\_,ìftfHf"fg,ðìÝ'è,μ,Ü,·B

## mfwfbf\_Šm"F

CE»ìÝ,ìfwfBF\_ììÝ'è,ðŠm"F,μ,Ü,·B

## □mftfbf^,ì□Ý'è□n

ftfbf^□Ý'è—p,ìf\_fCfAf□fOf{fbfNfX,a•\  
Ž!,<sup>3</sup>,é,Ü,·□Bftfbf^,Æ,μ,Å^ó□ü,μ,½,¢□'Ž®,ðftfbf^□'Ž®,É<L□q,μ,Ü,·□B

## □mftfbf^f}□[fWf“□n

fefLfXfg,©,çftfbf^,Ü,Å,ìfXfy□[fX,ðf~fŠ'P^Ê,Å□Ý'è,μ,Ü,·□B

## □mEr□ü□n

ftfbf^,É□m□ã□ü□n□A, ,é,¢,í□m^í,Ý~g□n,ìEr□ü,ð^ø,,©,Ç,α,©,ðŽw'è,μ,Ü,·□B

## □mEr□ü•□□n

ã□ü□A, ,é,¢,í^í,Ý~g,ìEr□ü,ìü•□,ðfhfbfg'P^Ê,Å□Ý'è,μ,Ü,·□B

## □mftfHf“fg□n

ftfbf^,ìftfHf“fg,ð□Ý'è,μ,Ü,·□B

## □mftfbf^Šm”F□n

CE»□Ý,ìftfbf^,ì□Ý'è,ðŠm”F,μ,Ü,·□B



## fwfbf\_[]Eftfbf^[]'Ž®

fwfbf\_[]Ý'è[]Eftfbf^[]Ý'è—p,lf\_fCfAf[]fOf{fbfNfX“à,É•\Ž!,<sup>3</sup>,è,éf}fNf[],É,æ,è^óü“úŽž[]Aftf@fCf<-  
¼[]Afy[]fW”Ó[]†,É,Ç,žž©—R,É'g,Y[]‡,í,<sup>1</sup>,Äfwfbf\_[]Aftfbf^,ð[]Ý'è,·,é,±  
,Æ,<sup>3</sup>,Ä,«,Ü,·[]B,Ü,½[]AfZfjpf[]f^ | ,É,æ,è^óü^É'u,<sup>3</sup>†%>[]A  
%E'[,É^U“®,,é,ì,Ä[]AfZf“f^fŠf“fO,â%ESñ,<sup>1</sup>,à%Ä“\,Ä,·[]B,»,è,<sup>1</sup>/<sub>4</sub>,è,lf}fNf[],lf{f^f“ ,ð%ÿ,·,±  
,Æ,É,æ,Ä,Ä,àf}fNf[],ð[]'Ž®'†,É'“ü,·,é,±,Æ,<sup>3</sup>,Ä,«,Ü,·[]B,É,“[]A% ,â |  
,»,ì,à,ì,ð^óü,<sup>3</sup>,<sup>1</sup>/<sub>2</sub>,çŽž,í[]A,»,è,<sup>1</sup>/<sub>4</sub>,è %%[]A%| ,Æ,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,ç[]B

[]@[]@—á[]Ffy[]fW”Ó[]†,ðftfbf^'†%>,É^óü

[]@[]@[]@[]@ftfbf^[]'Ž®[]F|- %p -

[]@[]@—á[]F^óü“úŽž,ðfwfbf\_%E'[,É^óü

[]@[]@[]@[]@fwfbf\_[]'Ž®[]F||%y/%m/%d %H:%M

[]@[]@—á[]Ffwfbf\_,ì'g,Ý[]‡,í,<sup>1</sup>—á

[]@[]@[]@[]@fwfbf\_[]'Ž®[]F%W %N %d %Y %H:%M:%S[]m%f[]n|Page %p

,É,“[]Afwfbf\_[]Eftfbf^[]'Ž®,ì%º,lf%ofCf“,ðNfŠfbfN,·,é,ÆfRf“f{f{fbfNfX,<sup>3</sup>CE»,è,Ü,·[]B,±,±  
,É,í[]A'<sup>1</sup>/<sub>4</sub>,lfXf^fCf<,lfwfbf\_[]Eftfbf^[]'Ž®,<sup>3</sup>af[]f[]g,<sup>3</sup>,è,Ä•\Ž!,<sup>3</sup>,è,Ü,·[]B'<sup>1</sup>/<sub>4</sub>,lfXf^fCf<,lfwfbf\_[]Eftfbf^,ð  
—¬—p,μ,<sup>1</sup>/<sub>2</sub>,çè[]‡,É'ì'ð,μ,Ä%º,<sup>3</sup>,ç[]B

□y^ó□ü□z

^È%oo,ìfRf}f“fh,ª‘l’ð%oÁ”\,Å,.□B

□m^ó□üfy□[fW□”□n

□mftf@fCf<•Ö□W□n

□m^ó□üZ□A□s□n

□m^ó□üfy□[fW□"□n

☉»□Ý,ìfXf^fCf<,Å•K—v,Æ,È,é^ó□üfy□[fW□",đ•\Ž!,μ,Û,·□B

□mftf@fCf<•Ò□W□n

^ó□üftf@fCf<,đ•Ò□W,·,é,½,ß,ÉfGfffBf^,đ<N“®,μ,Û,·□B<N“®,·,éfGfffBf^,í□yflfvfVftf“□z□fjf...  
□[,ÅŽw'è,·,é,±,Æ,ª,Å,«,Û,·□B

mfvfŠf“f^Ÿ'èn

fvfŠf“f^,ìŸ'è,ðs,xf\_fCfAf[]fOf{fbfNfX,a•\Ž!,è,Ü,·BŽg—p,;éfvfŠf“f^A^óü,ìEü,«A—  
pŽt,đ'đ,μ,Ä **OK** f{f^f“,đ%Ÿ,μ,Ä,,¼,³,çB,±,ìŸ'è,àSefXf^fCf<t,Å•Ú'¶,è,Ü,·B

## ÓÜŽÄsñ

^óü,žÄs,;é,½,β,ìf\_fCfAf\_fOf\_{fbfNfX,ª•\Ž!,³,é,Ü,·B^óü"íí,Æ^óü•"í,ìŽw'è,ðs,±,Æ,ª,Ä,«,·B[OK] f{f^f",ð%öÿ,;Æ^óü,ðŠ}Žn,μ,Ü,·B^óüžž,É,í [^óü'tž~] f{f^f",É,æ,è^óü,ð'tž~,;é,±,Æ,ª,Ä,«,Ü,·B

^óü"íí

^óü"íí,ÅmCE»Ý,ify[fWn,đ'í'đ,:é,ÆACE»ÝA%æ-Êã,É•Žı,³,ê,Ä,ç  
,éfy[fW,í^óü,đs,ç  
,Ü,:B^óü"íí,Åmfy[fWŽw'èn,đ'í'đ,:é,ÆAfy[fW'P^Ê,Ä,ı"•^óü,đs,ç  
,Ü,:B,Ü,½mfy[fW%Šú'lñ,Ä,íA^óü,:éÅ%,ify[fW,ify[fW"Ôt,đŽw'è,:é,±  
,Æ,ª,Ä,«,Ü,:B

^óü•"□"

^óü,·,é•"□",đŽw'è,μ,Û,·□B•;□"•"□",đ^óü,·,éê#□A'Ê□í,í•"'P^Ê,Å,ì^óü,đЄJ,è•Ô,μ,Û,·□Bfy□[f  
WfjvfŠf"f^,È,Ç,Åfy□[fW'P^Ê,Å•;□"•"□",đ^óü,·,é<@"\,ª, ,éê#□  
A□m•"'P^Ê,Å^óü□n,ì`fFbfNf{fbfNfX,đf`fFbfN,μ,È,ç□ó'Ô,É,μ,Ä,¨,-  
,Æ□Afy□[fW'P^Ê,Å•;□"fy□[fW,ì^óü,đ□s,ç,Û,·□B,±  
,ìê#□A^óü,íê"x,Å□í,þ,ì,Å□,'¬,É•;□"•"□",ì^óü,đ□s,π,±,Æ,ª,Å,«,Û,·□B



□yflfvfVf#f“□z

^È%º,ìfRf}f“fh,ª‘l’ð%ºÁ”\,Å,·□B

□m‘S‘l,ìfifvVf#f“□n

□m'S'ì,ìfìfvfVf†f"□n

'S'ì,ìfìfvfVf†f",đ□Ý'è,.,éf\_fCfAf□fOf{fbfNfX,<sup>a</sup>•\Ž|,<sup>3</sup>ê,Ü,·□B,±,±,Å,í□A^È%°°,ìfpf%°f□□[f^,<sup>a</sup>•ĩ□X  
%°Å"\,Å,·□B

□@<N" @,.,éfGfffBf^-1/4

□@•Ü'¶%°Å"\,ÉfXf^fCf<□"

□@<N" @Žž,É□Å□-°°>

□@<N" @Žž,É^ó□ù

<N“®,.éGfffBf^-¼

ny^óüzfijf...[.imftf@fCf<•ÖWn,Å<N“®,.éGfffBf^,ðÝ'è,μ,Ü,.BfGfffBf^,ìRf}f“fh-¼,ð'¼Ü<Lq,μ,Ü,.B,É,“A,»},ìRf}f“fh,ª¶Ý,.éfffBfCEfNfgfS,ÉfpfX,ªÉ,Á,Á,ç,É,çéê‡,íA“K“- ,ÉfpfX-¼,ð•t, ,Á<Lq, ,é•K—v,ª, ,è,Ü,.B

•Ů‘ŕ%ŏÂ”\,ÈfXf^fCf<ŕ”

•Ů‘ŕ%ŏÂ”\,ÈfXf^fCf<ŕ” ,ìŕĂ’â’l,đŕÝ’è,μ,Û,·ŕBŕ%ŏŠúŕó’Ô,Ă,Í,±,ì’l,í,Q,O,Æ,È,Á,Ä,ç  
,Û,·ŕB•Ů‘ŕ,·,éfXf^fCf<ŕ” ,ª,Q,O,đ%ŏz,ì,éŕêŕ‡,É“K”-,É’ŕ,â,μ,ĂŽg,Á,Ä,,¾,¾,çŕB

<N“®Žž,ÉĀ¬%o»

,±,ìf`fFfbfNf{fbfNfX,đf`fFfbfN,·,é,ÆĀAŽŸ%oñ,æ,è **PRTwin** ,đĀĀ¬%o»,μ,½ó’Ô,Ā<N“®,μ,Ü,·B

<N“@Žž,É^óü

,±,ì`fFfbfNf{fbfNfX,ðf`fFfbfN,·,é,ÆAfhf%fbfOfAf“fhfhf[]fbfv[]A,Ü,½,ÍRf}f“fhf  
%ofCf“,ì^ø”,É,æ,è^óüftf@fCf<,ð“o~^,μ,½[]ê[]#[]A<N“@’¼CEã,É^óüf\_fCfAf[]fO,ð•\Ž!,μ,Ü,·[]B

□yfwf◁fv□z

^È%º,ì□€-Ú,ªŽQ□Æ%Â"\\,Å,·□B

□mfVfFfAfEfFfA□n

□mfTf|□[fg□n

□mfo□[fWf‡f“□î•ñ□n





Ž, ³, ê, é'—<à'ã"s"Ô□t,đ"o~^"Ô□t,Æ,μ,Ä"ü—Í,·,é,±,Æ,ª,Å,«,Ü,·□B—

X•Ö□U'Ö,Å'—<à,³,ê,½□ê□#□A•t'®,ì

**SHARE.TXT**,đ,²ŽQ□Æ,ì□ã□AƒAƒ"fP□[fg,đ"dŽqf□□[f<,Å'—,Á,Ä,¢

,½,¾,¯,ê,Í□A□Ü,è•Ô,μ"o~^"Ô□t,đ"□s,¢

,½,μ,Ü,·□B'A,μ□A"dŽqf□□[f<^ÈŠO,ìŽè'i,Å,ì"o~^"Ô□t,ì"□s,Í,¢,½,μ,©,Ë,Ü,·,ì,Å□A—\,ß,²—¹□³

%oº,³,¢□B

## mfTf|fgn

fTf|fg%ï<cZºEENIFTY-Serve ,ì%ï^ö,ì•û,íAF GALWIN ,Æ,ç,æftfH[f%of€ ,Ä,o,q,swin ,lfTf|fg%ï<cZº,ð—~—p,·,é,±,Æ,ª,Ä,« ,Ü,·B

f|fSf“fOfSfXfgEENE,o,q,sft[fU[fYf[fSf“fOfSfXfg(PRT-ML),ðŠJÝ,μ,Ä,ç ,Ü,·B,o,q,s[A,o,q,s[{[A,o,q,sshot[A,o,q,swin[A,o,q,swin32 ,È,Ç,o,q,sfVfS[fY,ÉSÖ,·,é~b'è,ðfCf“f^ [flfbfgf[f<,Ä”z’—,μ,Ü,·BŽQ%oÁŠó-]ŽÒ,í **majordomo@tysm0.b6.kanagawa-u.ac.jp** ,Ü,Äf[f<,ð’—,Ä,Ä%º,³,çB,È,“Af[f<,É,íÄ %o,É

@@subscribe prt f|f<fAfhfÆfX  
@@@end

,Æ,ç,æ,Qs,ð’ ,ç,Ä%º,³,çB,È,“Af|f<fAfhfÆfX,É,íAfCf“f^ [flfbfgfã,lfAfhfÆfX,ð’ ,ç,Ä %º,³,çB—á,ì,íANIFTY-Serve ,ìê#AZ©•ª,ì ID ,ìÆã,É @niftyserve.or.jp ,Æ•t, ,½,ì,æfCf“f^ [flfbfgfã,lfAfhfÆfX,Æ,È,è,Ü,·B,± ,é,É,æ,èŽ©“@“l,Éf[fSf“fOfSfXfg,Ö,ì“o~^ ,ª,³,é,Ü,·BÜ,μ,ç—~—p•û- @,lf[f<,Ä,“m,ç,¹,μ,Ü,·ªA**prt@tysm0.b6.kanagawa-u.ac.jp** ,Æ,ç ,æfCf“f^ [flfbfgfAfhfÆfX,É’—M,μ,½“à—e,ªŽQ%oÁŽÒ’S^ö,Éf[f<,Ä’—,ç,é,éŽd’g,Ý,Æ,È,Á,Ä,ç ,Ü,·B,±,lf[fSf“fOfSfXfgŽQ%oÁŽÒ,íÄV,ìî•ñ,ð,ç,ì‘,“üŽè,·,é,±,Æ,ª,Ä,« ,Ü,·B,à,ì,è,ñŽQ %oÁ,í-³—ì,Ä,·BŽQ%oÁŽ’Si,à, ,è,Ü,¹,ñB,o,q,s,É<>-ì, ,é•û,í¥”ñŽQ%oÁ,μ,Ä,Ý,Ä%º,³,çB

f|fo[fWf#f“fAfbfvEENEfo[fWf#f“fAfbfv,lfAfifEf“fX,í NIFTY-Serve FGALWIN ,ì %oï<cZº,Æã<L,lf[fSf“fOfSfXfgã,Äs,ç,Ü,·B,Ü,½ÄVfo[fWf#f“ ,íANIFTY-Serve FGALWIN ,ì ,v,h,m,R,Q, ,é,ç,íA^óü,ÉSÖ,·,éf%ofCfuf%ofS,ÉÆöŠ,μ,Ü,·,ì,Ä,²~—p %º,³,çB,Ü,½fCf“f^ [flfbfg,ð,²~—p,Ä,« ,é•û,íA^É%º,ì WWW ,lfz[f€fy[fW,É,àÄVfo[fWf#f“ ,ðÆöŠ,μ,Ä,ç,Ü,·B,²~—p%º,³,çB

@@<http://tysm8.b6.kanagawa-u.ac.jp/~toyo/software.html>

mfowfjfn

PRTwin ,i~iE A, ,æ,Nfo[fWf#f“ ,đ•Ž!,μ,Ü,·B

i~A—æEEENIFTY-Serve : PBA00456 -L^@<v“<sup>1</sup>

@@@@Internet : toyo@tysm0.b6.kanagawa-u.ac.jp

**f[]fCf“fEfCf“fhfE**

<N“ @Žž,Éf[]fVf“,μ,½fEfCf“fhfE,í[]ACE»[]Ý,ífXf^fCf<,É,“,̄,é—pŽt,ð•\,μ,Ä,ç  
,Ü,·[]B^ó[]üftf@fCf<,ª“o~^,³,é,Ä,ç,é[]ê[]‡,í[]A,Pfy[]fW-Ú,ì“à—e,ðfCf[][]fW•\Ž!,μ,Ü,·[]B“à‘α,ì”“[]F,ì  
—ì^æ,lfefLfXfg,ì^ó[]ü,³,é,é“í^í,ð•\,μ,Ü,·[]B,½,¾,μ[]A““,¶—pŽtftfCfY,Ä,àftfHf“fg,ìftfCfY,É,æ,Ä,Ä  
%œ-É[]ä,Ä,ì^á,«,³,ª^Ü,É,é[]ê[]‡,ª, ,è,Ü,·[]B

f}fEfXfj[]fVf<,ð^óŽž“í^í“à,É^Ú“ @,.,é,Æfj[]fVf<,ªŽ,β,ª,É,ìCE“,É•ì,í,è,Ü,·[]B,±,±  
,Äf}fEfX,ì[]¶f{f^f“,ðfNfŠfbfN,.,é,Æ—pŽt,ì^á,«,³,ªŠg^á,³,é,Ü,·[]B%œEf{f^f“,ðfNfŠfbfN,.,é,Æ<t,É—  
pŽt,ì^á,«,³,ª[]k[]¬,³,é,Ü,·[]B,±,é,É,æ,è,W“iŠK,ì^á,«,³,ª^ì,x,Ü,·[]B,Ü,½[]Af}fEfXfj[]fV  
f<,ªfwfbf\_[]A,.,æ,Nftfbf^,ì^Ê^u,É, ,éŽž,É[]¶f{f^f“,ðfNfŠfbfN,.,é,Æ[]A[]**mfwfbf\_[]Y’è[]n[]A[]mftfb**  
**f^[]Y’è[]nf[]fj**...[][,ð,».,é,¼,é<N“ @,μ,Ü,·[]B

f}fEfXfj[]fVf<,ª—pŽt}[]fWf“,ì“í^í,É, ,éŽž,Éf}fEfX,ì[]¶f{f^f“,ðfNfŠfbfN,.,é,Æ[]A

- []@[]@fCEfCfAfEfG
- []@[]@ftfHf“fg
- []@[]@fwfbf\_[]Eftfbf^
- []@[]@fvfŠf“f^[]Y’è

,ìf|fbfvfAfbfvf[]fj...[][,ªCE»,é,Ü,·[]B,±,±,Ä[]¶fNfŠfbfN,ÄŠef[]fj...[][,ð^ì^ð,.,é,±,Æ,ª,Ä,«,Ü,·[]B

f}fEfXfj[]fVf<,ª—pŽt,ìŠO‘α,É, ,éŽž,Éf}fEfX,ì[]¶f{f^f“,ðfNfŠfbfN,.,é,Æ[]A

- []@[]@^ó[]üfy[]fW[]”
- []@[]@ftf@fCf<•ò[]W
- []@[]@^ó[]üžÄ[]s

,ìf|fbfvfAfbfvf[]fj...[][,ªCE»,é,Ü,·[]B,±,±,Ä[]¶fNfŠfbfN,ÄŠef[]fj...[][,ð^ì^ð,.,é,±,Æ,ª,Ä,«,Ü,·[]B

## f^fCf<sub>g</sub>f<fo






f^fCf<sub>g</sub>f<fo,É,íA<N" @ Žž,ÉfvfOj%of€<sup>-1/4</sup>,ÆfXf^fCf<<sup>-1/4</sup>,<sup>a</sup>\  
Ž,<sup>3</sup>,ê,Ü,·B,Ü,½^óüftf@fCf<"o~^Žž,É,í,<sup>3</sup>,ç,Éftf@fCf<<sup>-1/4</sup>,à\  
Ž,<sup>3</sup>,ê,Ü,·BfXf^fCf<·íXŽž,É,íAfXf^fCf<<sup>-1/4</sup>,í¶,É-,lf}¶[fN,<sup>a</sup>•t,«,Ü,·B

## fXfNf[]f<fo[]

^óüftf@fCf<,ª•;[]"fy[]fW,É,¨,æ,Ôê[]#[]Af[]fCf"fEfCf"fhfE%oE'l,ÉfXfNf[]f<fo[],ª•\  
Ž,³,ê,Û,·[]B,±,ê,ð'€[]ì,·,é,±,Æ,É,æ,èfy[]fW,ð[]i,ß,½,è-ß,µ,½,è,µ,Å^óüfCf[]fW,ìŠm" F,ð[]s,±,  
,Æ,ª,Å,«,Û,·[]B

## fc<fo

f<fo...[,ì%º,Éfc<fo[,ª•\Ž!,³,ê,Ü,·B,»ê,¼,ê,ìfAfCfRf“,í^È%º,ìf<fo...[,É'í%ž,µ,Ä,ç,Ü,·B

- @ @  [mftf@fCf<'l'ð](#)
- @ @  [mftf@fCf<'l'ð](#)
- @ @  [mfXf^fCf<•Ù'¶](#)
- @ @  [mfCfCfAfEfg](#)
- @ @  [m^óüŽÀs](#)

^óüftf@fCf<,iŽw'è

<N" @ Žž,ÉfRf}f"fhf%ofCf" ä,Åftf@fCf<-¼,đfpf%of[]f^ ,Æ,μ,Ä'Ç%oÁ,·,é,±  
,Æ,É,æ,è^óüftf@fCf<,đ"o~^,·,é,±,Æ,ª,Å,«,Ü,·B

@@@—áF**PRTWIN FILENAME**

@@@@@**FILENAME** ,Æ,ç,ɤftf@fCf<,đ^óüftf@fCf<,Æ,μ,ÄŽw'è,μ,Ü,·

,È,"A•i",ìftf@fCf<-¼,đŽw'è,μ,½ê#AÅĀĒă,ÉŽw'è,μ,½ftf@fCf<-¼,¾,¯,ª—LĒø,Æ,È,è,Ü,·B

,Ü,½A'¼,ìfAfvfŠfP[]fVf#f",©,çftf@fCf<,đfhf%ofbfO•fhf[]fbfv,Å **PRTwin**  
,ìf[]fCf"fEfCf"fhfE,É^Ú" @,³,¹,é,±,Æ,É,æ,è,»,ìftf@fCf<,đ^óüftf@fCf<,Æ,μ,Ä"o~^,·,é,±  
,Æ,ª,Å,«,Ü,·B



^óüfXf^fCf<,iŽw'è

<N“®Žž,ÉfRf}f“fhf%ofCf“ä,Å/(fXf^fCf<”Öt) ,Æ,ç,ɸlfvfVfɸf“,ðfpf%of[]f^,Æ,μ,Ä'Ç  
%oÁ,·,é,±,Æ,É,æ,èA“Ç,Ýž,þ^óüfXf^fCf<,ðŽw'è,·,é,±,Æ,ª,Ä,«,Ü,·B,±,±  
,Ä,lfXf^fCf<”Öt,Æ,íA[mfXf^fCf<CEAonA[mfXf^fCf<•Ü¶n,í€-Ú,Á\  
Ž!,³,é,éfŠfXfgf{fbfNfX“à,Ä,í¶”Ö,ÄAÄ%o,lfXf^fCf<”Öt,í 0 ”Ö,Ä,·B

@@@—áF**PRTWIN** /5

@@@@@@<N“®Žž,É,T”Ô-Ú,lfXf^fCf<,ð“Ç,Ýž,Ý,Ü,·

,Ü,½A^óüftf@fCf<,ð<N“®Žž,ì^ø”,ÄŽw'èA, ,é,ç,Ífhf  
%ofbfO•fhf[]fbfv,ÄŽw'è,μ,½ê[]A,»,lftf@fCf<,^óüfXf^fCf<,iŠÖ~A•t,ftf@fCf<,lfpf^[]f“,  
Æ^è'v,μ,Ä,ç,è,íA,»,lfXf^fCf<,ðŽ©“®“l,ÉCEA,Ño,μ,Ü,·B



