

**Žg—p<-‰oĀ,ª—v<□,³,è,Û,μ,½□B**

[fzfLf...fŠfefB,ìCex□□] f\_fCfAf□fO f{fbfNfX,É•\Ž,³,è,Ā,ç,éfAfNfZfXCE ,ª Java fAfvfCEfbfg,©,ç—  
v<□,³,è,Û,μ,½□B]Java fAfvfCEfbfg,É,æ,Ā,Ā,í□AŽĀ□sŽž,É□Aft□fU□□[,ìfRf“fsf...□f^,É, ,éftf@fCf<,È,ç,ìfŠfĀ  
□[fX,É Java fAfvfCEfbfg,©,çfAfNfZfX,·,é•K—v,ª, ,è,Û,·□BfRf“fsf...□[f^,ìfŠfĀ  
□[fX,ÉfAfNfZfX,·,é,É,í□A“Ā•Ē,ÈfAfNfZfXCE ,ª•K—v,Ā,·□BfAfNfZfXCE ,í□Afìfbfgf□□[fNŠç—  
□ŽO,É,æ,Ā,ĀŠù,ÉŽw'è,³,è,Ā,ç,é□è□#,ª, ,è,Û,·□BfAfNfZfX,ð<-‰oĀ,·,é□è□#,í□A,»],ìfAfNfZfXCE ,ª—  
v<□,³,è,½,Æ,«,,Éft□[fU□□[,É'É'm,·,é,æ,κ,ÉŽw'è,Ā,«,,Û,·□Bft□[fU□□[,É'É'm,μ,È,ç,æ,κ,ÉŽw'è,μ,½□è□#,í□A<-  
‰oĀ,³,è,½fAfNfZfXCE ,ð´,ì,éfAfNfZfX,ª Java fAfvfCEfbfg,©,ç—v<□,³,è,½□è□#,¾,´'É'm,³,è,Û,·□B  
,±,ì Java fAfvfCEfbfg,ðfCf“fXfg□[f<,μ□AŽĀ□s,·,é,©,ç,κ,©,ð”»'f,·,é,É,í□A]Java fAfvfCEfbfg,ì□»'çCE³,Æ Java  
fAfvfCEfbfg,©,ç—v<□,³,è,Ā,ç,éfAfNfZfXCE ,É,Ā,ç,Ā□\•ª,ÉCEŸ“ç,·,é•K—v,ª, ,è,Û,·□B,±,è,ç,ì“\_ðCEŸ“ç  
,μ,½CE<‰oĒ□A,±,ì Java fAfvfCEfbfg,ìŽĀ□s,É•s^Ā,ðŠ´,¶,é□è□#,í□A[fzfLf...fŠfefB,ìCex□□] f\_fCfAf□fO  
f{fbfNfX,ì [OK] ,ðfNfŠfbfN,μ□A[fzfLf...fŠfefB,ìCex□□] f\_fCfAf□fO f{fbfNfX,ì [,ç,ç,ì]  
,ðfNfŠfbfN,μ,ĀfCf“fXfg□[f<,ð´ž~ ,μ,Ā,,¾,³,ç□B

fAfNfZfXCE ,É,Ā,ç,Ā,ì□U□x,í□AŽŸ,ì□€-Ú,ì,ç,·,è,©,ðfNfŠfbfN,μ□A□à-¾,ðŽQ□Æ,μ,Ā,,¾,³,ç□B

fNf‰fCfAf“fg fXfgfCE□[fW

fjfxf^f€

ŽĀ□s

ftf@fCf< I/O

f}f:f`f□fffBfA

fìfbfgf□□[fN I/O

^ó□ü

fVfXfef€ fvf□fpfefB

fŠftfCEfNfVf#f“

fCEfWfXfgfŠ

fZfLf...fŠfefB

fVfXfef€ fXfgfŠ□[f€

fXfCEfbfh

ft□[fU□□[ fCf“f^□[ftfFfCfX fAfNfZfX

ft□[fU□□[ ftf@fCf< I/O

,“Žg,ç,ìfRf“fsf...□f^,É□Ÿ'è,³,è,Ā,ç,éfAfNfZfXCE ,ðŠm,©,ß,é•û-@,É,Ā,ç,Ā,í□AŽŸ,ì "ŠÖ~A□€-Ú"  
,ðŽQ□Æ,μ,Ā,,¾,³,ç□B

---

{button ,AL("A\_IDH\_SEC\_ALERT\_VIEW\_JAVA\_CUSTOM\_SETTINGS")} ŠÖ~A□€-Ú

□Ý'è,ð•\Ž!Ü,½,í•ĩ□X,·,éAfNfZfX,iŽí—p,ª•\Ž!,³,ê,Ü,·□BfAfNfZfXCE ,ì□Ý'è,ð•ĩ!,é,É,í□A^ê——  
,ĀfAfNfZfX,iŽí—p,ðfNfŠfbfN,μ□A%º,ìf{fbfNfX,Ā□Ý'è,ðŽw'è,μ,Ü,·□B

Žw'è,μ,½fAfNfZfX,đ<-‰oÂ,·,éftf@fCf<,ì-¼'O,đ"ü—í,·,é□ê□Š,Å,·□B-¼'O,đ"ü—í,·,é,©□A,Ü,½,í \*.exe  
,ì,æ,ı,Ëf□fCf<fhfj□[fh,đ"ü—í,μ□A[ 'Ç‰oÁ] ,đfNfŠfbfN,·,é,Æ□A‰oº,í^ê—,É'Ç‰oÁ,<sup>3</sup>,ê,Ü,·□B

Žw'è,μ,½fAfNfZfX,đ<-%oÂ,·,éftf@fCf<,l^è—,ª•\Žl,³,ê,Ü,·□B

“ü—í,μ,½□€-Ú,ð^ê—,É'Ç%oÁ,μ,ÃfAfNfZfX,ð<-%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

'l'đ,μ,½€-Ú,đ^ê—,©,çíœ,;,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B

Žw'è,μ,½fAfNfZfX,đ<-‰oÂ,·,éftf@fCf<,l^è—,©,ç□œŠO,·,éftf@fCf<,l-¼'O,đ"ü—l,·,é□é□Š,Â,·□B

Žw'è,μ,½fAfNfZfX,đ<-‰oÂ,μ,È,çftf@fCf<,ì^ê—,ª•\Ži,³,ê,Ü,·□B



ftf@fCf< URL fR[]fh fx[]fX,Ö,lfAfNfZfX,ð<-‰Å,·,é,æ,α,É,μ,Û,·[]B

□Ý'è,đ•\Ž!,Ü,½,í•ĩ□X,·,éƒAfNfZfX,iŽí—p,ª•\Ž!,³,ê,Ü,·□B

Žw'è,μ,½fAfNfZfX,đ<-‰Â,·,éƒƒfWfXfgfŠ fL□[,ì-¼'O,đ"ü—í,·,é□ê□Š,Â,·□B-¼'O,đ"ü—í,μ□A[‘Ç‰Á]  
,đNfŠfbfN,·,é,Æ□A‰°,ì^ê—,É'Ç‰Á,<sup>3</sup>,ê,Ü,·□B

Žw'è,μ,½fAfNfZfX,ð<-‰oÂ,·,éfŒfWfXfgfŠ fL□[,î^ê—,ª•\Ž!,³,ê,Û,·□B

Žw'è,μ,½fAfNfZfX,đ<-‰oÂ,·,éƒŒfWfXfgfŠ fL□[,ì^ê—,©,ç□œŠO,·,éƒŒfWfXfgfŠ fL□[,ì-¼'O,đ"ü—  
í,·,é□ê□Š,Ā,·□B

Žw'è,μ,½fAfNfZfX,δ<-‰oÂ,μ,È,cfŒfWfXfgfŠ fL□[,î^ê—,ª•\Ž!,³,ê,Û,·□B

f\_fCfAfO f{fbfNfX,ììì-,ð<-%oÂ,μ,Ü,-B

fgfbfv fCEfxf< fEfBf“fhfE,ìì□□¬,ð<-‰oÂ,μ,Û,·□B



Java fAfvfCEfbfg, ©, çfgfbfv fCEfxf< fEfBf“fhfE, ìì□¬, ¢—v<□, ¢, ê, ½, Æ, «, ÉCEx□□, ð•Ž!, ·, é, æ, ¢, É, μ, Û, ·□B

ï•ñ,ì∅,èŽæ,èAfRfs[A,“,æ,Ñ“\,è•t,ÉfRf“fsf...[f^,ìfNfŠfbvf{[fh,ðŽg,α,±,Æ,ð<-‰Â,μ,Û,·B

fvXfef€ fvf□pfefB,É'í,·,é-³□SCEÀ,ìfAfNfZfX,ð<-‰oÂ,μ,Û,·□B

ſvfXfef€ ſvf□pfefB,ÆŠg'£Žq,đŽw'è,μ,ÄfAfNfZfX,đ<-‰oÂ,Û,½,í<ÖŽ~,·,é,æ,π,É,μ,Û,·□B

fAfNfZfX,đ<-‰oÂ,·,éŠg'£Žq,đ“ü—í,·,é□ê□Š,Å,·□B

fAfNfZfX,đ<-‰oÂ,·éfVfXfef€ fvf□fpfefB,đ“ü—í,·,é□ê□Š,Å,·□B

fAfNfZfX,đ<-‰oÂ,μ,È,čVfXfef€ fvfpfefB,đ“ü—Í,·,éêŠ,Â,·B

,±,ìpfufŠfbfN fp□[f~fbfVf#f“ flfufWfFfNfg,ÉŠÖ~A•t,¯,ç,ê,Ä,ç,éf□□[f\_□[ f^fCfv,đŽg—p%oÂ“\,É,μ,Ü,·□B



,±,ìpfufŠfbfN fp[]f~fbfVf#f“ flfufWfFfNfg,ÉŠÖ~A•t,¯,ç,ê,Ä,ç,éf[]f\_[]^ÈŠO,ìf[]f\_[],đŽQ[]Æ,μ,Ä,ç  
.éf[]f\_[] f^fCfv,đŽg—p%oÄ”\,É,μ,Û,·[]B

fpfufŠbfN fvXfeje€ fNf%ofX,đŽQ□/E,μ,Ä,č,é□□[f\_□[ f^fCfv,đŽg—p%oÂ"\\,É,μ,Ü,·□B

,±,ìfp□[f~fbfVf#f“ flfufWfFfNfg,ÉŠÖ~A•t,¯,ç,ê,Ä,ç,éf□□[f\_□[ f^fCfv,ðŽg—p%oÂ“\,É,μ,Ü,·□B

,±,ìfp[]f~fbfVf#f“ flfufWfFfNfg,ÉŠÖ~A•t,¯,ç,ê,Ä,ç,éf[]f\_[]^ÈŠO,ìf[]f\_[],đŽQ[]Æ,μ,Ä,ç  
.éf[]f\_[] f^fCfv,đŽg—p%oÄ”\,É,μ,Û,·[]B

□éĈ<sup>3/4</sup>,<sup>3</sup>,ê,<sup>1/2</sup>vJXfef€ fNf%ofX,đŽQ□Æ,μ,Ä,ϕ,éf□□[f\_□[ f^fCfv,đŽg—p%oÂ"\\,É,μ,Û,·□B

ft[fU[,<sup>a</sup>Žw'è,μ,½ê‡,íAJava fAfvfEfbfg,É,æ,éftf@fCf<,ì“Ç,ÝŽæ,è,ð<-‰oÂ,μ,Ü,·B

ft[fU[,<sup>a</sup>Žw'è,μ,½ê‡,íAJava fAfvfEfbfg,É,æ,éftf@fCf<,ì',«ž,Ý,đ<-%oÂ,μ,Ü,·B

Java fAfvfCEfbfg,ÅŽg—p,Å,«,éfffBfXfN—ì^æ,ìfTfCfY,ðŽw'è,μ,Û,·□B



ft[]fU[],<sup>a</sup>,·,×,Ä,lfCf“f^[]f|fbfg ftj@fCf<,É'î,μ,ĂŽw'è,μ,½fffBfXfN—ì^æ,ì[]\$CEÀ,<sup>a</sup> Java fAfvfCEfbfg,É“K—  
p,<sup>3</sup>,ê,È,ç,æ,α,É,μ,Û,·[]B

^Ú“ @ftf@fCf<, ð<-‰Å, μ, Û, ·B^Ú“ @ftf@fCf<, íAft[fU[ , ìfvf@ftf@fCf<“à, É[ ñ- , ³, ê, Û, ·B, , éft[fU[ ,  
, ³f[fOflf“ , μ, ½fRf“fsf... [f^ , É, íA, » , ìft[fU[ , ì^Ú“ @ftf@fCf<, ²•Ú‘¶, ³, ê, Û, ·B

[ŽÄs,ð<-%oÂ] f{fbfNfX,ÅŽw'è,μ,½fAfvfŠfP[fVf#f“,ðŽÄs,Å,«,é,æ,α,É,μ,Ü,·B

ŽÀs,Å,«,é,æ,π,É,·,évf□fOf%of€,ďŽw'è,·,é□é□Š,Å,·□B

ŽÀs,Å,«,È,ç,æ,π,É,·,éfvf[]fOf%of€,ðŽw'è,·,é[]ê[]Š,Å,·[]B

fXfCEfbfh flfufWfFfNfg,É'í,·,é-³□SCEÀ,lfAfNfZfX,ð<-‰oÂ,μ,Ü,·□B

fXfCEfbfh fOf<[]fv,Éí,·,é-³[]SCEÀ,ìfAfNfZfX,ð<-‰oÂ,μ,Û,·[]B

• W□€“ü—lfXfgfŠ□[f€,ì□Ý'è,ðfp□[f~fbfVf†f“ fIfufWfFfNfg,É,æ,Á,Ä<-‰oÂ,·,é,æ,α,É,μ,Ü,·□B



• W□€□o—ÍXfgfŠ□[f€,ì□Ý'è,ðfp□[f~fbfVf†f“ fIfufWfFfNfg,É,æ,Á,Ä<-%oÂ,·,é,æ,π,É,μ,Û,·□B

fGf%o[o—ÍXfgfŠ[f€,ìY'è,ðfp[f~fbfVf+f“ flfufWfFfNfg,É,æ,Á,Ä<-%oÂ,·,é,æ,α,É,μ,Ü,·B

PrintingPermission ,đŠ—L, :éfNf%ofX,É^óüfT[fxfX,iŽg—p,đ<-%oÂ,μ,Û,·B

Microsoft® DirectX® API ,iŠg'£<@"\,Ö,İfAfNfZfX,đ<-‰oÂ,μ,Û,·□B

JDK ,lfZfLf...fŠfefB fNf%ofX **java.lang.security** ,Ö,lfAfNfZfX,đ<-‰oÂ,μ,Ü,-□B

□Ý'è, ð•\Ži, Ü, ½, í•ĩ□X, ·, é'Ê□M, iŽí—p, a•\Ži, ³, ê, Ü, ·□BŽŸ, ì•\, í□A'Ê□M, iŽí—p, Æ□Ý'è, ì^ê—, Ä, ·□B

□Ý'è

'Ê□M, iŽí—p

“Á'è, ìfzfXfg, Ö, ì'Ê□M, ÉŠÖ, ·, é^ê”Ê“i, Ê□Ý'è

□Ú'±

“Á'è, ìfCf“f^□[ftfFfCfX, âf|□[fg, É'í, ·, é□Ú'±

fofCf“fh

“Á'è, ìf}f<f`fLfffXfg fOf<□[fv, Ö, ìŽQ%oÁ

f}f<f`fLfffXfg

ÆÂ•Ê, ìf|□[fg, É□Ý'è, ³, ê, Ä, ç, é<K'¥, É—D□æ, ·, é□Ý'èfOf□[fof< f|□[fg

Žw'è,μ,½'É□M,δ<-‰°Á,·,ézfXfg,Æf|□[fg,ì-¼'O,đ"ü—í,·,é□ê□Š,Å,·□B-¼'O,đ"ü—í,μ□A['Ç‰°Á]  
,đNfŠfbfN,·,é,Æ□A‰°°,ì^ê—,É'Ç‰°Á,<sup>3</sup>,è,Ü,·□B

Žw'è,μ,½'É□M,đ<-‰oÂ,·,ézfXfg,Æf|□[fg,ì^ê—,ª•\Ž!,³,ê,Û,·□B



Žw'è,μ,½'É□M,đ<-‰oÂ,;ézfXfg,Æf|□[fg,î^è—,©,ç□œŠO,;ézfXfg,Æf|□[fg,î-¼'O,đ"ü—í,;é□ê□Š,Å,-□B

Žw'è,μ,½'É□M,đ<-‰oÂ,μ,È,†fzfXfg,Æf|□[fg,î^ê—,ª•\Ži,³,ê,Ü,·□B

File URL ,ÉÚ±,·,é,æ,π,É,μ,Û,·B

File URL ,Å,È,ç URL ,ÉÚ±,·,é,æ,π,É,μ,Û,·B

ffXf^f€E CEÀ,i-¼'O,Æff□[f^,ð"ü—í,·,é□ê□Š,Å,·□B-¼'O,Æff□[f^,ð"ü—í,μ□A['Ç%oÁ] ,ðfNfŠfbfN,·,é,Æ□A  
%oo°,í^ê—,É'Ç%oÁ,³,ê,Ü,·□B

$\int_X f^p \in \mathbb{C} \iff \int_X f \in \mathbb{C}$ ,  $\int_X f^p = \left(\int_X f\right)^p$  for  $p \in \mathbb{N}$ .

fZfLf...fŠfefB fCefxf<,ð□, (□Å,à^À'S) ,É□Ý'è,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

fZfLf...fŠfefB fCefxf<,đ't,É□Ý'è,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B



**ffXf^f€[Y'è,ð•\Ž|,.,é,É,Í**

Java ,ífAfNfZfXCE ,ÍAfífbfgf[fnŠÇ—ŽÒ,ª Internet Explorer ŠÇ—ŽÒfLfbfg (IEAK)  
,ðŽg,Á,ÄY'è,μ,Û,·B'ÉíAfífbfgf[fnŠÇ—ŽÒ,ªŽw'è,μ,½Y'è,ðft[fU[.ª•Í,|,é,±,Æ,Í,Á,«,Û,¹,ñ,ªA•\  
Ž|,.,é,±,Æ,Í,Á,«,Û,·BŽY,ìŽè±,ÁY'è,ð•\Ž|,μ,Û,·B

- 1 fffXfNfgfbfv,ì [fCf“f^[fífbf] fAfCfRf“,ðf}fEfX,ì%Ef{f^f“,ÁfNfŠfbfN,μAfívfípfefB] ,ðfNfŠfbfN,μ,Û,·B
- 2 [fZfLf...fŠfefB] f^fu,ðfNfŠfbfN,μAfíffXf^f€] ,ðfNfŠfbfN,μ,Û,·BŽY,ÉA[Y'è] ,ðfNfŠfbfN,μ,Û,·B
- 3 ^è—,Á [Java] ,ì [ffXf^f€] ,ðfNfŠfbfN,μ,Û,·B
- 4 f\_fCfAfífo f{fbfNfX,É•\Ž|,ª,è,½ [Java fffXf^f€[Y'è] ,ðfNfŠfbfN,μ,Û,·B

- '
- [ffXf^f€ fAfNfZfXCE ] f\_fCfAfífo f{fbfNfX,ì%º[.É [•ÒW] f{f^f“,ª•\Ž|,ª,è,Ä,ç ,éè±,ÍAY'è,ð•\X,Á,«,Û,·B
- [•ÒW] f{f^f“,ª•\Ž|,ª,è,É,çè±,ÍAfí[fU[.ªY'è,ð•\|,é,±,Æ,Í,Á,«,Û,¹,ñB[Y'è,ð•\|,é•K— v,ª, ,éè±,ÍAfífbfgf[fnŠÇ—ŽÒ,É,“-â,ç±,í,¹,¾,ª,çB

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{button ,AL("A\_IDH\_SEC\_ALERT\_MORE\_INFO")} ŠÖ~A€-Ú

,±,ìf\_CfAf□fO f{fbfNfX,ð•Â,¶□A•ï□X“à—e,ð•Û‘¶,µ,Û,·□B

•ĩX“à—e,đ•Ű‘ŕ,¹,,ÉA,±,lf\_CfAfO f{fbfNfX,đ•Â,ŕ,Ű,·B

**[f] [f" fGfffBf^] f\_fCfAf\_fO f{fbfNfX**

fAfNfZfXCE , í [A[-ç [ -¼] A[-%oÂ í, Ý] A, Ü, ½, í [fNfGfŠ [ / < ' ' Ü] , ÉŠ,,, è" -, Ä, é, ±, Æ, a, Å, «, Ü, · B [-ç [ -¼] , Ü, ½, í [ < -%oÂ í, Ý] , ÉŠ,,, è" -, Ä, Ä, ç, È, ç fAfNfZfXCE , í [A, ·, x, Ä [fNfGfŠ [ / < ' ' Ü] , ÉŠ,,, è" -, Ä, ç, é, Ü, · B [fNfGfŠ [ / < ' ' Ü] , ÉŠ,,, è" -, Ä, ½ fAfNfZfXCE , ì, ð, ç [A" Á" è, ì fAfNfZfXCE , ð [fNfGfŠ [ ] , ÉŠ,,, è" -, Ä, é, Æ [AŽc, è, ì fAfNfZfXCE , a [ < ' ' Ü] , ÉŠ,,, è" -, Ä, ç, é, Ü, · B < t, É [A" Á" è, ì fAfNfZfXCE , ð [ < ' ' Ü] , ÉŠ,,, è" -, Ä, é, Æ [AŽc, è, ì fAfNfZfXCE , a [fNfGfŠ [ ] , ÉŠ,,, è" -, Ä, ç, é, Ü, · B , ·, x, Ä, ì fAfNfZfXCE , ð < -%oÂ , ·, é, É, í [A [Š @ ' S, È CE CE À, ð < -%oÂ , ·, é] f` fFfbfN f{fbfNfX, ð f" f" , É, ·, é, Æ [A í %oŽ, ·, é f\_cfAf\_fO f{fbfNfX, Å, ·, x, Ä, ì fAfNfZfXCE , ð < -%oÂ , ·, é, æ, ð, É Ž w' è, ·, é • K — v, í, , è, Ü, ¹, ñ B

**[fjfx^f€ fAfnzfxc ] f\_cfafo f{fbfnfx**

,±,lf\_cfafo f{fbfnfx,É,íAflfbfgf[]fNšÇ—žž,É,æ,Á,žw'è,³,è,Ä,ç,é Java ,lfjfx^f€Ÿ'è,ª•\ Ž,³,è,Ü,·B

Java fAfvf€fbfg,É,æ,Á,Ä,íAžžsžž,ÉAft[]fU[],lfrf"fsf...[]f^,É, ,étf@fCf<,É,ç,lšf[]fX,É Java fAfvf€fbfg,©,çAfnzfX,·,é•K—v,ª, ,è,Ü,·Bfrf"fsf...[]f^,lšf[]fX,ÉfAfnzfX,·,é,É,íA"Á•É,ÉfAfnzfXCE ,ª•K—v,Á,·BfAfnzfXCE ,íAflfbfgf[]fNšÇ—žž,É,æ,Á,žšù,žw'è,³,è,Ä,ç,éèèª,ª, ,è,Ü,·BfAfnzfX,ð< -%Á,·,éèèª,íA,»,)fAfnzfXCE ,ª—v<ª,³,è,½,Æ,«,Éft[]fU[],É'É'm,·,é,æ,ª ,Éžw'è,Ä,«,Ü,·Bft[]fU[],É'É'm,µ,È,ç,æ,ª,Éžw'è,µ,½èèª,íA<-%Á,³,è,½fAfnzfXCE ,ð'´,!,éAfnzfX,ª Java fAfvf€fbfg,©,ç—v<ª,³,è,½èèª,¾,´É'm,³,è,Ü,·B

,±,lf\_cfafo f{fbfnfx,É,í 3 ,Á,l^fu,ª, ,èA,»,è,¼,è,l^fu,íAfnzfXCE ,l'g,Ÿª,í,¹,É'í%ž,µ,Ä,ç,Ü,·B

**f^fu CE CEÀ**

-ç[]-¼ []-¼,ì,È,çf\_fEf"f[]fh fRf"fef"fc,Éš,,,è"-,Ä,ç,è,Ä,ç,éAfnzfXCE

**CEx[] ,È,µ,Á<-%Á,í,Ÿft[]fU[],Éšm"F,¹, ,Éš,,,è"-,Ä,ç,è,éAfnzfXCE**

<'""Ü ft[]fU[],Éšm"F,µ,Ä,©,çš,,,è"-,Ä,ç,è,é,©A,Ü,½,í,É<Öž~ ,³,è,Ä,ç,éAfnzfXCE

Šef^fu,É,íAžž,ì,æ,ª,ÉfAfnzfXCE ,ªš,,,è"-,Ä,ç,è,Ä,ç,Ü,·B

fN%ofCfa"fg fXfgf[]fW

fjfx^f€

žžs

ftf@fCf< I/O

f}f<f`f[]ffBfA

fifbfgf[]fN I/O

^óü

fVxfefe€ fvf[]fpfefB

fšftf€fNfVf#f"

f€fWfXfgfš

fZfLf...fšfefB

fVxfefe€ fXfgfš[]f€

fXf€fbfh

ft[]fU[]\_fcf"f^[]ftfFfCfX fAfnzfX

ft[]fU[]\_ftf@fCf< I/O

**[ftf@fCf< l/O] f^fu**

,±,lf^fu,Å,íAFAfNfZfXCE ,ð<-‰Å,·,éftf@fCf<,ðŽw'è,μ,Û,·B•W€  
,ìY'è,Å,íA,·,x,Ä,lfTf@fCf<,œŠO,³,è,Ä,ç,é,½,ßAœŠO,·,éftf@fCf<,ðŽw'è,·,é•K—v,í, ,è,Û,<sup>1</sup>,ñB,½,¾,  
μA<-  
‰Å,·,éftf@fCf<,ìW±,ÉœŠO,μ,½,çftf@fCf<,ŠÛ,Û,è,éê±,íAœŠO,·,éftf@fCf<,ðŽw'è,μ,Û,·B,½,Æ,!,  
íA}fç`fœBfA ftj@fCf< (\*.avi) ,ð<-‰Å,·,éftf@fCf<,É'Ç‰Å,μ,½ê±,íA'Á'è,lf}fç`fœBfA ftj@fCf<  
(MyFile.avi ,È,Ç) ,ðœŠO,·,é,±,Æ,ª,Å,«,Û,·B["Ç,YŽæ,è]A[',«ž,Ý]A,¨,æ,Ñ [íœ] ,ì 3 Ží—  
p,lfAfNfZfX,É,Ä,ç,Ä^Û,È,éAfNfZfXCE ,ðŽw'è,·,é,±,Æ,ª,Å,«,Û,·B

'  
▪ ,±,lf\_fCfAfœfo f{fbfNfX,É,íA€-Ú,<sup>2</sup>,Æ,Éfwfçfv,<sup>a</sup> ,è,Û,·Bfwfçfv,ð•Ž!,·,é,É,íA-Ú"l,ì€-  
Ú,ð'1'ð,·,é,©A,Û,½,lfNfSfbfN,μAF1 fL[,ð‰Y,μ,Ä,,¾,<sup>3</sup>,çB

## [fCfWfXfgfŠ] f^fu

, ±, ĩf^fu, Å, íA fA fN fZ fX CE , đ<-%oÅ, , éfCfWfXfgfŠ fL[ , đŽw'è, μ, Û, ·B•W€  
, ĩY'è, Å, íA, , x, Å, ĩfCfWfXfgfŠ fL[ , aœŠO, ³, è, Å, ç, é, ½, B A œŠO, , éfCfWfXfgfŠ fL[ , đŽw'è, , é•K—  
v, í, , è, Û, ¹, ñB, ½, ¾, μA<-%oÅ, , éfCfWfXfgfŠ fL[ , ì%oº, ìŠK'w, ÉœŠO, μ, ½, çfCfWfXfgfŠ  
fL[ , aŠÜ, Û, è, éêê, íA œŠO, , éfCfWfXfgfŠ fL[ , đŽw'è, μ, Û, ·B, ½, Æ, , í AHKEY\_CURRENT\_USER , đ<-  
%oÅ, , éfCfWfXfgfŠ fL[ , É'Ç%oÅ, μ, ½êê, í AHKEY\_CURRENT\_USER , ì%oº, ìŠK'w, É, , é  
HKEY\_CURRENT\_USER\NETWORK , đœŠO, , é, ±  
, Æ, a, Å, «, ·B[“Ç, ÝŽæ, è]A[‘, «ž, Ý]A[í]œ]A[í]A[í]A, ”, æ, Ñ [Š], , ì 5 Ží—p, ĩA fN fZ fX, É, Å, ç  
, Å^Û, È, éA fN fZ fX CE , đŽw'è, , é, ±, Æ, a, Å, «, Û, ·B

'  
▪ , ±, ĩf\_C fA fO f{ f b fN fX, É, íA œ—Ú, ², Æ, Éf w f< f v, a, , è, Û, ·B f w f< f v, đ•\Ž!, , é, É, íA—Ú“l, ìœ—  
Ú, đ'ı'đ, , é, ©A, Û, ½, ĩfN fŠ f b fN, μA F1 fL[ , đ%oÿ, μ, Å, ¾, ³, çB

## [UI] f^fu

,±

,lf^fu,Å,í□Aft□lfU□[ fCf“f^□[ftfFfCfX,ÉŠÖCEW,.,éfAfnfzfxCE ,ðŽw'è,μ,Û,·□B,½,Æ,!,î□AfeFbf“fhfE,âf\_fCfA  
f□fO f{fbfNfX,ì□ì□¬,ð<-‰Å,μ,½,è□A.ini ftf@fCf<,È,Ç,lfvfXfe€ fv□fpfefB,Ö,lfAfnfzfx,ð<-‰Å,μ,½,è□A-  
â,ç□#,í,¹,ÉŽg,æ□î•ñ,ì□\‘ç,ðCE^'è,·,é,½,ß,É□î•ñ,ðf`ffbfN,·,é,±,Æ,ð<-  
‰Å,μ,½,è,Å,«,Û,·□BŽw'è,μ,½fAfnfzfxCE ,í□A[fjfxf^f€ fAfnfzfxCE ] f\_fCfA□fO f{fbfNfX,É•\  
Ž!,³,è,Û,·□B,Û,½□A<-‰Å,³,è,Ä,ç,éfAfnfzfxCE ,ð'´!,éfAfnfzfx,ª Java fAfvfCEfbfg,©,ç—  
v<□,³,è,½□è□#,É□A[fzflf...fŠfefB,ìCEx□□] f\_fCfA□fO f{fbfNfX,É•Ž!,³,è,Û,·□B

'□

▪ ,±,lf\_fCfA□fO f{fbfNfX,É,í□A□€-Ú,²,Æ,Éfwf<fv,ª ,è,Û,·□Bfwf<fv,ð•Ž!,·,é,É,í□A-Ú“l,ì□€-  
Ú,ð'1'ð,·,é,©□A,Û,½,lfNfŠfbfN,μ□AF1 fL□[,ð‰Y,μ,Å,,¾,³,ç□B



[,»,ì¼] f^fu

,±,ìf^fu,Å,íAftf@fCf<,ì“Ç,ÝŽæ,èA□',«□ž,Ý□A•Ú'¶□Afvf□fOf%of€  
,ìŽÀ□s□Afxfcefbfh,ì□ì□-,È,Ç,É'Í,.,éfAfnfzfxce ,ðŽw'è,μ,Ü,·□BŽw'è,μ,½fAfnfzfxce ,í□Alfjfxf^f€  
fAfnfzfxce ] f\_fcFAf□fO f{fbfNfx,É•\Ž!,³,è,Ü,·□B,Ü,½□A<-%oÅ,³,è,Ä,ç,éfAfnfzfxce ,ð'´,|,éfAfnfzfx,³  
Java fAfvfcefbfg,©,ç—v<□,³,è,½□ê□#,É□Alfzflf...fšfefB,ìCex□□] f\_fcFAf□fO f{fbfNfx,É•\Ž!,³,è,Ü,·□B  
'□  
▪ ,±,ìf\_fcFAf□fO f{fbfNfx,É,í□A□€-Ú,²,Æ,Éfwf<fv,ª, ,è,Ü,·□Bfwf<fv,ð•\Ž!,.,é,É,í□A-Ú"l,ì□€-  
Ú,ð'ì'ð,.,é,©□A,Ü,½,ífNfSfbfN,μ□AF1 fL□[,ð%oÝ,μ,Ä,¾,³,ç□B

**[f]bfgf [fN I/O] f^fu**

, ±, ĩf^fu, Å, íA<-‰Å, ·, éÚ' ±, ìŽí—p, ÆAÚ' ±, ð<-‰Å, ·, ézfXfg, Æf| [fg, ðŽw' è, μ, Ü, ·B•W€  
, ìY' è, Å, íA, ·, x, Ä, ĩzfXfg, Æf| [fg, œŠO, ³, è, Ä, ç, é, ½, B A œŠO, ·, é€-Ú, ðŽw' è, ·, é•K—v, í, , è, Ü, ¹, ñB, ½,  
¾, μA<-‰Å, μ, ½€-Ú, ìW [ç, É œŠO, μ, ½, ç€-Ú, œŠÜ, Ü, è, éê [ç, íA œŠO, ·, é€-  
Ú, ðŽw' è, μ, Ü, ·B [Ú' ±] A [fofçf"fh] A [f}fçf flfffXfg] A, ", æ, Ñ [fof [fofç f [fg] ], ì 4 Ží—p, ìÚ' ±, É, Å, ç  
, Ä^Ü, È, éAfnfzfxce , ðŽw' è, ·, é, ±, Æ, ³, Å, «, Ü, ·B

' [

▪ , ±, ĩf\_c fA f [fo f {fbfnfx, É, íA €-Ú, ², Æ, Éfwfçfv, ³, , è, Ü, ·Bfwfçfv, ð•\Ž!, ·, é, É, íA-Ú"l, ì€-  
Ú, ð'1' ð, ·, é, © A, Ü, ½, ĩNfSfbfn, μ AF1 fl [L, ð‰Y, μ, Å, , ¾, ³, çB

## [fjXf^f€] f^fu

,±,if^fu,Å,íA-¼'O,âff[f^ f^fCfv,ÅfjXf^f€ fAfNfZfXCE ,ìÝ'è,ðŽw'è,μ,Û,·B

'

▪ ,±,if\_CfAfO f{fbfNfX,É,íA€-Ú,<sup>2</sup>,Æ,Éfwf<fv,<sup>a</sup>, ,è,Û,·Bfwf<fv,ð•\Ž!,.,é,É,íA-Ú"l,ì€-Ú,ð'ì,ð,·,é,©A,Û,½,ífNfSfbfN,μAF1 fL[,ð%oÿ,μ,Å,,¾,<sup>3</sup>,çB

ft@fCf<,Ö,lfAfnfzfX,ì—v<□□A,Ü,½,Íft@fCf<,Ö,lfAfnfzfX,É'í,·éfAfnfzfXCE □B

flfbfgf[]fN'€i,âflfbfgf[]fNŠÖ~A,î^—,ì—v<[]A,Ü,½,í,±,ê,ç,ì'€i,É'í,·,éjAfNfZfXCE []B

fXfCfbfh,âfXfCfbfh fOf<[fv,ðïï¬,µ,½,èA'€ï,µ,½,è,Å,«,é,æ,α,É,·,éfAfNfZfXCE □B

fOf□□[fof< fVfXfef€ fvf□fpfefB,Ö,ÿAfNfZfX,â'€□ì,ì—v<□□A,Ü,½,í,±,ê,ç,ì'€□ì,É'í,·,éfAfNfZfXCE □B

,Ù,©,ìfAfvfŠfP[]fVf#f“,đŽÀ[]s,:é—v<[]A,Û,½,í,Ù,©,ìfAfvfŠfP[]fVf#f“,đŽÀ[]s,Å,«,é,æ,α,É,:éfAfnfZfxCE []  
B



fŠftfCEfNfVf#f“ ,ì‘€□i,đŽÀ□s,·,é—v<□□A,Ü,½,ÍfŠftfCEfNfVf#f“ API ,đŽg,Á,Ä“Á’è,ÍfNf  
%ofX,Íf□f“fo,ÉfAfNfZfX,Å,«,é,æ,π,É,·,éfAfNfZfXCE □B

^óü API ,ÉfAfNfZfX,Å,«,é,æ,α,É,; ,éfAfNfZfXCE □B

fCefWfXfgfŠ fL[],ÉfAfNfZfX,·,é—v<[]A,Ü,½,ÍfCefWfXfgfŠ,ÉfAfNfZfX,Å,«,é,æ,π,É,·,éfAfNfZfXCE []B

JDK fZfLf...fŠfefB fNf%ofX **java.lang.security** ,ÉfAfNfZfX,Å,«,é,æ,α,É,; ,éfAfNfZfXCE □B

^êŽž“l,Èî•ñ,ð•Ù‘¶,·,é,½,ß,ÉŽg,κÅ’å 1MB ,ì^êŽž“l,È—ì^æ,ðA□□-  
¼ï,ÝfRf“fef“fc,ì,½,ß,Éî□□→,Å,«,é,æ,κ,É,·,éAfNfZfXCE □BJava fAfvfCEfbfg,í□Aft□[fU□[,ìfn□[fh  
fffBfXfN,É, ,é,Ù,©,ìftf@fCf<,Éí,·,é“Ç,ÝŽæ,è,â□’,«□ž,Ý,í<-‰Å,³,è,Ü,¹,ñ□B□□-¼ï,Ý,ì Java  
fAfvfCEfbfg,í□AŽ©•ª,Å□î□→,μ,½^êŽž“l,È—ì^æ,¾,¯,ÉfAfNfZfX,Å,«,Ü,·□B,±,ìCE CEÀ,ð—  
^,ì,é,Æ□A’tfCEfxf<,ìfZfLf...fŠfefB,É,È,è,Ü,·□B

ft[fU[ fCf“f^[ftfFfCfX API ,išg'£<@“\,đŽg—p,;é—v<□□A,Û,½,í AWT ,išg'£<@“\,î^ê•”,đŽg—  
p,Â,«,é,æ,Ɂ,É,·,éfAfnfzfxCE □B

`java.lang.System.in` `java.lang.System.out` `java.lang.System.err`

ft[]fU[],iŠm" F,đ•K—v,Æ,·,é"ü□o—í'€□i,ì—v<□□A,Ü,½,í,±,ê,ç,ì'€□i,É'í,·,éjAfNfZfXCE □B



Šg'£f}f`f`ffBfA<@"\,ðŽg—p,Å,«,é,æ,α,É,:éAfNfZfXCE □B

ffXf^f€'€ò,ðs,κ—v<òòA,Ü,½,íffXf^f€'€ò,É'í,·,éAfnfzfXœ □B

