

**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,ª,ÉŽw'è,Ā,«,Û,·□Bft□fU□□[,É'É'm,μ,È,ç,æ,ª,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,ª,©,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' ,ì,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'tŽ~,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,·,éêŠ,Å,·B-¼'O,đ"ü—í,·,é,©A,Ü,½,í \*.exe  
,ì,æ,æ,ËfCf<fhfj[fh,đ"ü—í,μA[Ç‰oÁ] ,đfNfŠfbfN,·,é,ÆA‰o,ì^è—,É'Ç‰oÁ,<sup>3</sup>,ê,Ü,·B

Žw'è,μ,½fAfNfZfX,đ<-%oÂ,·,éftf@fCf<,l^ê—,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<-‰Ā,·,éƒĈfWfXfgfŠ fL□[,ì-¼'O,đ"ü—í,·,é□ê□Š,Ā,·□B-¼'O,đ"ü—í,μ□A[‘Ç‰Ā]  
,đNfŠfbfN,·,é,Æ□A‰°,ì^ê—,É'Ç‰Ā,<sup>3</sup>,ê,Ü,·□B

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

Žw'è,μ,½fAfNfZfX,đ<-‰oÂ,·,éfĈfWfXfgfŠ fL□[,ì^ê—,©,ç□œŠO,·,éfĈfWfXfgfŠ 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,Ü,·□B

f\_fCfAfO f{fbfNfX,ìììì,ð<-%oÂ,μ,Û,-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

fvfXfef€ 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 fvfxfe€ fNf%fx,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,đŽg—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>vJXfēfē 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,Û,·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<-‰oÂ, µ, Ü, ·□B^Ú“ @ftf@fCf<, í□Aft□[fU□[, ìfvf□ftf@fCf<“à, É□ì□¬, ³, ê, Ü, ·□B, , éft□[fU□[  
, ³f□fOf|f“ , µ, ½fRf“fsf...□[f^, É, í□A, » , ìft□[fU□[, ì^Ú“ @ftf@fCf<, ²•Ú‘¶, ³, ê, Ü, ·□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,·,éfvf[]fOf%of€,ðŽw'è,·,é[]ê[]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,Éî,·,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€,ìŸ'è,ðfp□[f~fbfVf†f“ fIfufWfFfNfg,É,æ,Á,Ä<-%oÂ,·,é,æ,π,É,μ,Û,·□B

fGf%o[o—ÍXfgfŠ[f€,ìÝ'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<-‰Á,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“l, 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,Ü,·□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<-‰°Â,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

$\int \int_X f^{\wedge} f \in \mathbb{C} \mathbb{A}, i^{-1/4} O, \mathbb{E} f f \square [f^{\wedge}, i^{\wedge} \hat{e} - \dots, \mathfrak{a} \cdot \backslash \check{Z} i, \mathfrak{z}, \hat{e}, \ddot{U}, \cdot \square B$

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€□Ý'è,ð•\Ž!,.,é,É,Í**

Java ,ífAfNfZfXCE ,Í□Afífbfgf□□[fNŠÇ—□ŽÒ,ª Internet Explorer ŠÇ—□ŽÒfLfbfg (IEAK)  
,ðŽg,Á,Ä□Ý'è,μ,Ü,·□B'Éí□Afífbfgf□□[fNŠÇ—□ŽÒ,ªŽw'è,μ,½□Ý'è,ðft□[fU□[.ª•Í,!,é,±,Æ,Í,Á,«,Ü,<sup>1</sup>,ñ,ª□A•\  
Ž!,.,é,±,Æ,Í,Á,«,Ü,·□BŽŸ,ìŽè□‡,Á□Ý'è,ð•\Ž!,μ,Ü,·□B

- 1 fffXfNfgfbfv,ì [fCf“f^□[fbfbfg] fAfCfRf“,ðf}fEfX,ì%oEf{f^f“,ÁfNfŠfbfN,μ□A[fvf□pfefB]  
,ðfNfŠfbfN,μ,Ü,·□B
- 2 [fZfLf...fŠfefB] f^fu,ðfNfŠfbfN,μ□A[fjXf^f€] ,ðfNfŠfbfN,μ,Ü,·□BŽŸ,É□A[□Ý'è] ,ðfNfŠfbfN,μ,Ü,·□B
- 3 ^è—,Á [Java] ,ì [ffXf^f€] ,ðfNfŠfbfN,μ,Ü,·□B
- 4 f\_fCfAf□fO f{fbfNfX,É•\Ž!,<sup>3</sup>,è,½ [Java fffXf^f€□Ý'è] ,ðfNfŠfbfN,μ,Ü,·□B

- '□
- [ffXf^f€ fAfNfZfXCE ] f\_fCfAf□fO f{fbfNfX,ì%o□[.É [•Ò□W] f{f^f“,ª•\Ž!,<sup>3</sup>,è,Ä,ç  
,é□è□‡,Í□A□Ý'è,ð•\X,Á,«,Ü,·□B
- [•Ò□W] f{f^f“,ª•\Ž!,<sup>3</sup>,è,É,ç□è□‡,Í□Aft□[fU□[.ª□Ý'è,ð•\!,é,±,Æ,Í,Á,«,Ü,<sup>1</sup>,ñ□B□Ý'è,ð•\!,é•K—  
v,ª, ,é□è□‡,Í□Afífbfgf□□[fNŠÇ—□ŽÒ,É,“-â,ç□‡,í,<sup>1</sup>,,¾,<sup>3</sup>,ç□B

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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,±,ìf\_CfAfO f{fbfNfX,đ•Â,ŕ,Ű,·B

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

fAfNfZfXCE , íA[-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,çfAfNfZfXCE ,íA,·,x,Ä [fNfGfŠ[][<'""Ü] ,ÉŠ,,,è"-,Ä,ç,é,Ü,·B  
[fNfGfŠ[][<'""Ü] ,ÉŠ,,,è"-,Ä,½fAfNfZfXCE ,ì,π,¿A"Á"è,ìfAfNfZfXCE ,ø [fNfGfŠ[][] ,ÉŠ,,,è"-  
,Ä,é,ÆAŽc,è,ìfAfNfZfXCE ,ª [ <'""Ü] ,ÉŠ,,,è"-,Ä,ç,é,Ü,·B<t,ÉA"Á"è,ìfAfNfZfXCE ,ø [ <'""Ü] ,ÉŠ,,,è"-  
,Ä,é,ÆAŽc,è,ìfAfNfZfXCE ,ª [fNfGfŠ[][] ,ÉŠ,,,è"-,Ä,ç,é,Ü,·B  
,·, x, Ä, ìfAfNfZfXCE ,ø<-%oÂ,·,é,É,íA[Š@'S,ÈCE CEÀ,ø<-%oÂ,·,é] f`fFfbfN f{fbfNfX,øfif" ,É,·,é,ÆAí  
%ož,·,éf\_fCfAf\_fO f{fbfNfX,Å,·, x, Ä, ìfAfNfZfXCE ,ø<-%oÂ,·,é,æ,π,ÉŽw'è,·,é•K—v,í, ,è,Ü,<sup>1</sup>,ñB

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

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

Java fAfvf€fbfg,É,æ,Á,Ä,íAžÀsžž,ÉAft[]fU[],lfrf"fsf...[]f^,É, ,étf@fCf<,È,Ç,lfšf[]fX,É Java fAfvf€fbfg,©,çAfnzfX,·,é•K—v,ª, ,è,Ü,·Bfrf"fsf...[]f^,lfšf[]fX,ÉfAfnzfX,·,é,É,íA"Á•È,ÉfAfnzfXCE ,ª•K—v,Á,·BfAfnzfXCE ,íAflfbfgf[]fNšç—žò,É,æ,Á,Äšù,Éžw'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,æ ,Éžw'è,Ä,«,Ü,·Bft[]fU[],É'É'm,µ,È,ç,æ,æ,Éžw'è,µ,½èèª,íA<-%Á,³,è,½fAfnzfXCE ,ð'´,·,éfAfnzfX,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,lj^fu,ª, ,èA,»,è,¼,è,lj^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,íAžŸ,ì,æ,æ,ÉfAfnzfXCE ,ªš,,,è"-,Ä,ç,è,Ä,ç,Ü,·B

fN%fCfa"fg fXfgf[]fW

fjfx^f€

žÀs

ftf@fCf< I/O

f}f<f`f[]ffBfA

f|fbfgf[]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< I/O] f^fu**

, ±, ĩf^fu, Å, íA fA fN fZ fX CE , đ<-‰Å, , éftf@fCf<, đŽw'è, μ, Û, ·B•W€  
, ĩY'è, Å, íA, , x, Å, ĩftf@fCf<, œŠO, ³, è, Å, ç, é, ½, ßAœŠO, , éftf@fCf<, đŽw'è, , é•K—v, í, , è, Û, ¹, ñB, ½, ¾,  
μA<-  
‰Å, , éftf@fCf<, ĩW# , ÉœŠO, μ, ½, çftf@fCf<, ŠÛ, Û, è, éê# , íAœŠO, , éftf@fCf<, đŽw'è, μ, Û, ·B, ½, Æ, !,  
îA f}f<f` ffffBfA ftj@fCf< (\*.avi) , đ<-‰Å, , éftf@fCf<, É'Ç‰Å, μ, ½ê# , íA'Á'è, ĩf}f<f` ffffBfA ftj@fCf<  
(MyFile.avi , È, Ç) , đœŠO, , é, ±, Æ, ³, Å, «, Û, ·B["Ç, ÝŽæ, è]A[ , «ž, Ý]A, , æ, Ñ [íœ] , ï 3 Ží—  
p, ĩfA fN fZ fX, É, Å, ç, Å^Û, È, éfA fN fZ fX CE , đŽw'è, , é, ±, Æ, ³, Å, «, Û, ·B

'  
▪ , ±, ĩf\_CfA fO f{f b fN fX, É, íA€—Ú, ², Æ, Éf w f<fv, ³, , è, Û, ·B f w f<fv, đ•Ž!, , é, É, íA—Ú"l, ĩ€—  
Ú, đ'1'đ, , é, ©A, Û, ½, ĩfN fS f b fN, μAF1 fL[ , đ‰Y, μ, Å, , ¾, ³, 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 [ ì Ñ ] 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, μ A F 1 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,lfvfXfef€ fvf□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,Ä,«,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,Ä,,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,Û,·□BŽw'è,μ,½fAfnfzfxce ,í□Alfjfxf^f€  
fAfnfzfxce ] f\_fCfA□fO f{fbfNfX,É•\Ž!,³,è,Û,·□B,Û,½□A<-%oÅ,³,è,Ä,ç,éfAfnfzfxce ,ð'´,|,éfAfnfzfx,<sup>a</sup>  
Java fAfvfcefbfg,©,ç—v<□,³,è,½□ê□#,É□Alfzflf...fšfefB,ìCex□□] f\_fCfA□fO f{fbfNfX,É•\Ž!,³,è,Û,·□B

'□  
▪ ,±,ìf\_fCfA□fO f{fbfNfX,É,í□A□€-Ú,<sup>2</sup>,Æ,Éfwf<fv,<sup>a</sup>,è,Û,·□Bfwf<fv,ð•\Ž!,.,é,É,í□A-Ú"l,ì□€-  
Ú,ð'ì'ð,.,é,©□A,Û,½,ífNfSfbfN,μ□AF1 fL□[,ð%oÿ,μ,Ä,¾,¾,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, Å, ĩzfXfg, Æf [fg, œŠO, ³, è, Å, 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, É œŠO, μ, ½, ç€-Ú, œŠÜ, Ü, è, éê, íA œŠO, ·, é€-  
Ú, ðŽw' è, μ, Ü, ·B [Ú' ±] A [fofCf"fh] A [f}f·fLfffXfg] A, ", æ, Ñ [fof [fof· f [fg] ], ì 4 Ží—p, ìÚ' ±, É, Å, ç  
, Å^Ü, È, éAfnfzfxce , ðŽw' è, ·, é, ±, Æ, ³, Å, «, Ü, ·B

'

▪ , ±, ĩf\_cfAfo f {fbfnfx, É, íA€-Ú, ², Æ, Éfwf·fv, ³, , è, Ü, ·Bfwf·fv, ð·\Ž!, ·, é, É, íA-Ú"l, ì€-  
Ú, ð'1'ð, ·, é, ©A, Ü, ½, ĩNfSfbfn, μAF1 fL [, 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,Ü,·□B

'□

▪ ,±,if\_fCfAf□fO f{fbfNfX,É,íA□€-Ú,<sup>2</sup>,Æ,Éfwf<fv,<sup>a</sup>, ,è,Ü,·□Bfwf<fv,ð•\Ž!,.,é,É,íA-Ú"l,ì□€-Ú,ð'ìð,·,é,©□A,Ü,½,ífNfSfbfN,μ□AF1 fL□[,ð%oÿ,μ,Å,,¾,<sup>3</sup>,ç□B

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,κ∆’â 1MB ,ì^êŽž“l,È—ì^æ,ð∆∆∆-  
¼∆∆,ÝfRf“fef“fc,ì,½,ß,È∆∆∆∆,∆,«.,é,æ,κ,É,·,é∆fNfZfX∆ ∆BJava fAfvf∆fbfg,í∆Aft∆∆fU∆∆l,ìfn∆∆fh  
fffBfXfN,É, ,é,Ù,©,ìftf@fCf<,Éí,·,é“Ç,ÝŽæ,è,â∆’,«∆ž,Ý,í<-‰∆,³,è,Ü,¹,ñ∆B∆∆-¼∆∆,Ý,ì Java  
fAfvf∆fbfg,í∆AŽ©•ª,∆∆∆∆∆,µ,½^êŽž“l,È—ì^æ,¾,∆,∆,É∆fNfZfX,∆,«,Ü,·∆B,±,ì∆∆∆∆∆,ð—  
^,ì,é,∆∆∆∆∆’t∆∆f∆f<,ìfZfLf...fŠf∆fB,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€'€□ì,ð□s,κ—v<□□A,Ü,½,íffXf^f€'€□ì,É'í,·,éfAfNfZfXCE □B

