

fRf“fsf...□[f^,ÉfCf“fXfg□[f<,³,ê,Ä,¢,éfQ□[f€ fRf“fgf□□[f%,âê——•\Ž!,³,ê,Ü,·□BfRf“fgf□□[f%
,ìfefXfg□A□\□¬□A,Ü,½,í□Ä²□©,ð□s,¤,É,í□A,»,ìfRf“fgf□□[f%,ð'l'ð,μ□A[fvf□fpfefB],ðfNfŠfbfN,μ,Ü,·□B

[fQ□[f€ fRf“fgf□□[f%] f{fbfNfX,îê——,É•Ž!,³ê,Ä,¢,é□î•ñ,ª□X□V,³ê,Ü,·□B

□V,μ,ϕfQ□[f€ fRf"fgf□□[f%,đ'Ç%Á,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

'l'đ,μ,½fQ□[f€ fRf“fgf□□[f%o,đ□í□œ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

□Ú□×□Ýè,ð•Ž|,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B—D□æfffofCfX,ð'l'ð,·,é,±,Æ,^aÅ,«,Ü,·□B

,±,ìfQ□[f€ fRf“fgf□□[f%o,ìfefXfg,Ü,½,Í²□®,đ□s,ø,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

fgf%uf<fVf...[fefBf"fO,đ<N"@,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·B

fRf"fgf□□[f% ID ,ÆŠe ID ,ÉÆ»□ÝŠ,,,è"—,Ä,ç,ê,Ä,¢,éfQ□[f€ fRf"fgf□□[f%□A," ,æ,ÑfQ□[f€ fRf"fgf□□[f%
,^afCf"fXfg□[f<,³,ê,Ä,¢,éf|□[fg,]^ê——,^a•\Ž|,³,ê,Ü,·□B

,±,ìfffofCfX,É'î,μ,Ä□»'ϕÆ³ñ<Ÿ,ìfvf□fpfefB fV□[fg,ð—~—p,Å,«,é,±,Æ,ðŽ',μ,Ü,·□BfVfXfef€
,ìŠù'è',ðŽg,ϣ□é□‡,Íf`fFfbfN f{fbfNfX,ðflft,É,μ,Ü,·□B

'l'đ,μ,½fQ□[f€ fRf“fgf□□[f%o,ÉŠ,,,è“–,Ä,ç,ê,Ä,ç,é ID ,đ•i□X,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

*f*Q□[*f*€ *f*R*f*“*f*g*f*□□[*f*%_o,ÉŠ_„,è“–,Ä,éfQ□[*f*€ *f*|□[*f*g,ð,±,îê——,©,ç‘l,Ñ,Ü,·□B

fQ□[f€ fRf“fgf□□[f%,^a□A[2 f{f^f“,}ftf%oCf g f~□[fN] ,È,Ç,}Ži—p•Ê□A,;æ,Ñ [Microsoft SideWinder (Ž©“@Æÿ□o)] ,È,Ç,}□»•i-¼•Ê,Ê“ê——•Ži,³ê,Ü,·□Bžg—p,·,é fQ□[f€ fRf“fgf□□[f%,}□»•i-¼,^ê——,É•Ži,³ê,é□ê□±,í□Aê——,©,ç□»•i-¼,đ'N,Ũ,Ñ,·□B

fQ□[f€ fRf“fgf□□[f%,}□»•i-¼,Ü,½,}Ži—p,^ê——,É,Ê,¢□ê□±,í□A[f+□[fU□[è`] ,đfNfŠfbfN,μ,Ä fQ□[f€ fRf“fgf□□[f%,đ□□~·,·,é,©□A,±,}fff□□CfX,É,í,·,éfhf%oCf o f\ftfgfEfFfA,đfCf“fXfg□[f<,μ,Ü,·□B

[fn□[fhfEfFfA,ì'Ç%ÂfEfBfU□[fh] ,ðŠJ,,Æ,«,ÉfNfŠfbfN,μ,Ü,·□BfCf“fXfg□[f< fffBfXfN,a, ,é□ê□‡,Í□A,±
,ìfEfBfU□[fh,ÅfQ□[f€ fRf“fgf□□[f%,ìfhf%oCfo,ðfCf“fXfg□[f<,Ä,«,Ü,·□B

fCf" fXfg□[f< fffBfXfN,a,È,□AfQ□[f€ fRf"fgf□□[f%,a [fQ□[f€ fRf"fgf□□[f%] f{fbfNfX,i^ê——
,É•Ž',³,ê,È,¢□ê□‡,Í□AfNfŠfbfN,μ,ÄfQ□[f€ fRf"fgf□□[f%,l"Á□«,ðŽw'è,μ,Ü,·.□B

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,Æ,ª,Å,«,«„Ü,·□B,Ü,½□A3 žž,ìfQ□[f€ fRf“fgf□□[f%„É,í□AfXf□fbfgf< fRf“fgf□□[f<ª•t,¢,Ä,¢,Ü,·□B4 žž,ìfQ□[f€
fRf“fgf□□[f%„É,í□AfXf□fbfgf<,Æf%_□[ª•t,¢,Ä,¢,Ü,·□B

'æ 3 Ž²,ªf%ff_□[,Ü,½,Ífyf_f<,Å, ,é,±,Æ,ðŽ!,μ,Ü,·□B

‘æ 3 Ž²,ª Z Ž²,Å, ,é,±,Æ,ðŽ,µ,Ü,·□B

$fQ \sqsubseteq [f \in fRf \text{“} fgf \sqsubseteq \sqsubseteq [f\%, \dot{\sqcup} \{f^{\wedge}f\text{“}, \dot{\sqcup} \text{”}, \delta\check{z}w'\grave{e}, \mu, \dot{\sqcup}, \cdot \sqsubseteq B$

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,Æ,ðŽ,ι,μ,Ü,·□B

f^fbf`ffBfŒfNfVf‡fif<fRf"fgf□□[f%,â, ,é,±,Æ,ðŽ!,μ,Ü,·□B'Ê□í□A,±,}fRf"fgf□□[f%,É,Íf{f^f",â 2 □`4
ŒÂ, ,è,Ü,·□B

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Ê□ã,ìfufuFfNfg,ð•Ž!,·,é~Ê'u,Ü,½,Í•ûŒü,ðŽw'è,·,é,±,Æ,^aÅ,«,Ü,·□B

“ÆŽ©,ìfQ□[f€ fRf“fgf□□[f%„ì¼‘O,ð“ü—Í,·,é□ê□Š,Å,·□B,±,ì¼‘O,í□AfRf“fsf ...□[f^,ÉfCf“fXfg□[f<,³,ê,Ä,¢,é
—~—p%„Â“,ÈfRf“fgf□□[f%„ìê——,É•Ž,³,ê,Ü,·□B

fRf“fgf□□[f%^afWf‡fCfXfefBfbfN,Å, ,é,±,Æ,ðŽ!,μ,Û,·□B

[fQ□[f€ fRf“fgf□□[f%] f{fbfNfX,îê——,É•Ž!,³,ê,éfRf“fgf□□[f%-¹/₄,ÉŠ,,,è“-Ä,éfRf“fgf□□[f% ID
,đ'!đ,μ,Ü,·□B

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'l'đ,μ,½fRf“fgf□□[f% ID ,ª\Ž!,³ê,Ü,·□B,±,ì ID ,ÉfQ□[f€ fRf“fgf□□[f%,đŠ,,,è“-Ä,é,É,í□A[fQ□[f€
fRf“fgf□□[f%] f{fbfNfX,îê——,ìfRf“fgf□□[f%-¼,đfNfŠfbfN,μ,Ü,·□B

—~—p%Å"\\,ÈfQ□[f€ fRf“fgf□□[f%,âê——•Ž!,³ê,Ü,·□B□]—^,îfAfvfŠfP□[fVf‡f“,Å—
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Žg—p,·,éƒQ□[ƒ€ ƒRƒ“ƒgƒ□□[ƒ%₀,Éƒ%₀ƒ_□[,Ü,½,Íƒyƒ_ƒ<,^a,,é,±,Æ,ðŽ!,μ,Ü,·□B,Ü,½,Í□A□Ú'±
,μ,½ƒ%₀ƒ_□[,Ü,½,Íƒyƒ_ƒ<,^a—LŒø,É,È,è,Ü,·□B

ffofCfX,ìfRf“fgf□□[f<,ðŠù'è'l,ÉfŠfZfbfg,μ,Ü,·□BUSB fRf“fgf□□[f%
,ì□ê□‡,í□AffffofCfXŽ©'ì,ÉŠî,Ã,«□Ý'è'l,^aŽæ“¾,³ê,Ü,·□B,Ù,©,ìfRf“fgf□□[f%,ì□ê□‡,í□A fRf“fgf□□[f%,ìŽí—
p,É%Ž,¶,½”Ä—p,ì□Ý'è'l,^aŽg,í,ê,Ü,·□B

[ffofCfX,ì²@fEfBfU[fh] ,ð«N“@,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B,±,ìfEfBfU[fh,É,æ,Á,Ä□AfQ□[f€
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fQ□[f€ fRf“fgf□□[f%,É•t,¢,Ä,¢,éŽ<ŠE,ì□Ø,è'Ö,|<@“\ (POV) ,ðfefXfg,·,é,Æ,«,ÉŽg,¢,Ü,·□BPOV ,í 4
,Â,Ü,ÂfefXfg,Â,«,Ü,·□BPOV ,ì□F,í 1 "Ô-Ú,^a□Ô□F□A2 "Ô-Ú,^a□Â□F□A3 "Ô-Ú,^a□•□F□A4 "Ô-Ú,^a—
î□F,Â,·□B□³□í,É%Ž“š,μ,È,¢□ê□‡,í□A[fgf%uf<fVf...□[fefBf“fO] f{f^f“,ðfNfŠfbfN,μ,Ä-â'è,ì%ðŒ^•û-
@,ð²,x,Ü,·□B

*f*Q□[*f*€ *f*R*f*“*f*g*f*□□[*f*%,ì{*f*^*f*“,ð*f*e*f*X*f*g,μ,Ü,·□B*f*e*f*X*f*g,·,é,É,í□A*f*{*f*^*f*“,ð 1 ,Â,·,Â%Ÿ,μ,Ü,·□B*f*{*f*^*f*“”Ô□†,ìŠ,,è“–
,Ä,Í□A*f*Q□[*f*€ *f*R*f*“*f*g*f*□□[*f*%,ì□»'¢Ɛ³,É,æ,Á,ÄƐ^è,³,ê,Ü,·□B

