

fVfXfef€,É*fCf*“*fXfg*□[*f*◁,³ê,Ä,¢,é*fQ*□[*f*€ *fRf*“*fgf*□□[*f*%₀,îê——,ª\Ž|,³ê,Ü,·□*BfRf*“*fgf*□□[*f*%₀
,î*efXfg*□*A*□\□¬□*A*,Ü,¹/₂,í□*Ä*’²□@,ð□*s*,ª,É,í□*AfRf*“*fgf*□□[*f*%₀,đ’l’ð,μ,Ä,©,ç [*fvf*□*pfefB*] ,đ*fNfŠfbfN*,μ,Ü,·□*B*

□V,μ,¢fQ□[f€ fRf"fgf□□[f%ø,ð'Ç%Á,·é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

'l'ð,μ,½fQ□[f€ fRf“fgf□□[f%ø,ðí□œ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

,±, ðfQ□[f€ fRf“fgf□□[f%o, ðefXfg□A□\□¬□A, Ü, ½, í²□@, ð□s, ¢, Æ, «, ÉfNfŠfbfN, µ, Ü, ·□B

fCf" fXfg□[f<,³,ê,Ä,¢,éŠefQ□[f€ fRf"fgf□□[f%o,]fRf"fgf□□[f%o ID ,î^ê——,ª•\Ž!,³,ê,Ü,·□BŠefQ□[f€
fRf"fgf□□[f%o,ÉŠ,,,è"—,Ä,ç,ê,Ä,¢,é ID ,í□A•ï□X,Ä,«,,Ü,·□B

fVfXfef€,É*fCf*“*fXfg*□[*f*◁,³ê,Ä,¢,é*fQ*□[*f*€ *fRf*“*f*g*f*□□[*f*%₀,î[^]ê——,^a•Ž[!],³ê,Ü,[.]□B

fRf"fgf□□[f% ID ,Æ□AŠe ID ,ÉŒ»□ÝŠ,,,è"—,Ä,ç,ê,Ä,č,éfQ□[f€ fRf"fgf□□[f%,îê——,ª\Ž!,³ê,Ü,·□B

fRf"fgf□□[f% ID ,đ'đ,μ,½Œă,ÉfNfŠfbfN,·é,Æ□AŠ,,è"—,Ă,ç,ê,Ă,¢,éfQ□[f€ fRf"fgf□□[f%,đ•ï□X,Â,«,Ü,·□B

*f*Q□[*f*€ *f*R*f*“*f*g*f*□□[*f*% *f*|□[*f*g,^a*f*|□[*f*g *f*h*f*%*f*C*f*o,đ•K—v,Æ,.,é□ê□‡,Í□A,±,î[^]ê——,©,ç*f*|□[*f*g
*f*h*f*%*f*C*f*o,đ'!*đ*,μ,Ä,,¾,³,¢□B

fQ[f€,ðf!f“f%ofCf“,ÅfvfƎfC,μ,Ä,¢,é,Æ,«,Éf,ff€,l-â'è,"¶,·,éê±,íAf`fFbfNf{fbfNfX,ðf!ft,É,μ,Ä,-
,¾,¾,¢B

Ží—▷ (2 $f\{f^{\wedge}f^{\circ},\grave{\imath}f\mathfrak{t}f\%fCf\mathfrak{g}\mathfrak{f}^{\wedge}\square[fN)\text{ ; },\mathfrak{z},\mathfrak{N}\square\gg\bullet\mathfrak{i}-\frac{1}{4}$ (Microsoft SideWinder 3D Pro) ,\grave{\imath}\bullet\acute{E},\acute{E}fQ\square[f\text{€} fRf^{\circ}fgf\square\square[f\%
,\grave{\imath}\acute{e}\text{---},\mathfrak{d}\bullet\grave{\imath}\grave{\imath},\mu,\ddot{U},\cdot\square B\%_{\circ}\acute{A}^{\circ}\backslash,\acute{A},\text{ ,}\acute{e},\acute{\imath}\square AfQ\square[f\text{€} fRf^{\circ}fgf\square\square[f\%_{\circ},\grave{\imath}\text{<}\grave{\imath}\grave{\imath}\grave{\imath},\acute{E}\square\gg\bullet\mathfrak{i}-\frac{1}{4},\mathfrak{d}'\mathfrak{l},\mathfrak{n},\acute{A},,\frac{3}{4},^3,\text{€}\square B

$fQ\square[f\text{€} fRf^{\circ}fgf\square\square[f\%_{\circ},\grave{\imath}\square\gg\bullet\mathfrak{i}-\frac{1}{4},\ddot{U},\frac{1}{2},\acute{\imath}\acute{Z}\acute{\imath}\text{---}\mathfrak{p},^{\mathfrak{a}}\acute{e}\text{---},\acute{E}\acute{S}\ddot{U},\ddot{U},\acute{e},\acute{A},\text{€},\acute{E},\text{€}\square\acute{e}\square\ddagger,\acute{\imath}\square A[fQ\square[f\text{€} fRf^{\circ}fgf\square\square[f\%_{\circ},\grave{\imath}'\text{Ç}\%_{\circ}\acute{A}]$
, $\mathfrak{d}fNf\acute{S}f\mathfrak{b}fN,\mu,\acute{A}f\mathfrak{h}f\%_{\circ}fCf\mathfrak{o},\mathfrak{d}fCf^{\circ}fXf\mathfrak{g}\square[f\text{<},^{\circ},\acute{e},\text{€}\square A,\ddot{U},\frac{1}{2},\acute{\imath}\text{ [}f\ddagger\square[fU\square[\acute{e}\text{<`}]$, $\mathfrak{d}fNf\acute{S}f\mathfrak{b}fN,\mu,\acute{A}^{\circ}\acute{E}\acute{Z}\text{€},\grave{\imath}fRf^{\circ}fgf\square\square[f\%_{\circ}$
, $\mathfrak{d}\square\grave{\imath}\square\text{---},\mu,\acute{A},,\frac{3}{4},^3,\text{€}\square B$

Žg—p't,ìfQ□[f€ fRf“fgf□□[f%,ªfRf“fgf□□[f%,îê——,ÉŠÜ,Ü,ê,Ä,¢,È,¢□ê□‡,Í□A,±,±,ðfNfŠfbfN,µ,Ü,·□B

fQ[f€ fRf“fgf[f%,lŽ²”,đŽw’è,μ,Ü,·B—áŠO,à, ,è,Ü,·,ªA2 Ž²,lfQ[f€ fRf“fgf[f%
,í`è”Ê,ÉAā%°,; ,æ,Ň¶%E,É“®,«,Ü,·B3 Ž²,lfQ[f€ fRf“fgf[f%,íA`è”Ê,ÉAfXf bfgf<
fRf“fgf[f<,đ'ñ<Ÿ,μ,Ü,·B4 Ž²,lfQ[f€ fRf“fgf[f%,íA'ÊíAfXf bfgf<,Æf%f_ [,đ'ñ<Ÿ,μ,Ü,·B

$fQ \sqcup [f \in fRf \text{ “} fgf \sqcup \sqcup [f\%_o, \mathfrak{l} \{f^{\wedge}f \text{ “} \sqcup \text{”}, \mathfrak{d}\check{Z}w'è, \mu, \ddot{U}, \cdot \sqcup B$

fQ□[f€ fRf“fgf□□[f%,a'P□f,ÈfWf‡fCfXfefBfbfN,æ,è,â•iŽG,È,à,ì,Â, ,é□ê□‡,Í□A,±,ê,ç,ìlfvfVf‡f“,ì,¢
,,ê,©,đ'đ,μ,Û,·□B

ftf%oCf g fVf~f...fÆ□[f^ fvf□fOf%of€—p,lfRf“fgf□□[f%o,Å, ,é,±,Æ,ǎŽw'è,μ,Ü,·□B

fpfbfhŒ^,lfRf“fgf□□[f%,Å, ,é,±,Æ,ðŽw'è,μ,Ü,·□BfpfbfhŒ^,lfRf“fgf□□[f%,Í 8 ,Â,Ì•ûŒü,É“@,«□A'Ê□í,Í 2
,Â,©,ç 4 ,Â,lf{f^f“,ðŽ□,Á,Ä,ç,Ü,·□B

fXfefAfŠf“fO fzfC□[f◁□AfAfNfZf◁ fyf_f◁□A,“,æ,ÑfufŒ□[fL fyf_f◁,đŽ□,Á,½fRf“fgf□□[f‰,Â, ,é,±
,Æ,đŽw`è,μ,Û,·□B

fñfbfg fXfCfbf` (POV) ,ðŽ□,Á,½fQ□[f€ fRf“fgf□□[f%,Å, ,é,±,Æ,ðŽw'è,μ,Ü,·□Bfñfbfg fXfCfbf` (POV)
,ðŽg,α,Æ□A%æ–Ê□ã,l|fufWfFfNfg,ðŒ©,é^Ê'u,Ü,½,í•ûŒü,ðŽw'è,Å,«,Ü,·□B

$f \vdash [fU \sqcap [{}^{\text{e}} \text{`} fQ \sqcap [f \in fRf \text{“} fgf \sqcap \sqcap [f\%, \text{ł} \text{--} \text{¼} \text{'O, } \delta \text{“} \ddot{u} \text{—} \acute{I}, \mu, \ddot{U}, \cdot \sqcap B, \pm, \text{ł} \text{--} \text{¼} \text{'O, } \acute{I} \sqcap A [fQ \sqcap [f \in fRf \text{“} fgf \sqcap \sqcap [f\%] \text{ } f_fCfAf \sqcap fO$
 $f\{fbfNfX, \text{ł} \text{ } [fRf \text{“} fgf \sqcap \sqcap [f\%] \text{ } ^{\text{e}} \text{—}, \acute{E} \bullet \text{ł} \acute{Z} \text{!}, \text{³} \acute{e}, \ddot{U}, \cdot \sqcap B$

,±,ìfRf“fgf□□[f% ID ,ÉŠ,,è“-Ä,éfQ□[f€ fRf“fgf□□[f%,ð'!‘ð,μ,Ü,·□B
^ê•",ìfQ□[f€,Å,í□AfQ□[f€ fRf“fgf□□[f%,ðffofCfX ID 1 ,ÉŠ,,è“-Ä,é•K—v,^a, ,è,Ü,·□B

Ži—b (2 f{f^f“,}ftf%fcfg f^□[fN), ;æ,Ñ□»i—¼ (Microsoft SideWinder 3D Pro), ì•Ê,fQ□[f€ fRf“fgf□□[f%
ìê——,đ•Žì,ü,Ü, □B%Â^,Â, ê,ì□AfQ□[f€ fRf“fgf□□[f%,ì<ìì“l,È□»i—¼,đì,ñ,Â,¾,¾,¢□B

Ž² 1 ; ,æ,Ñ 2 ,ì“®,,«,ì”íí,ðŽ!,μ,Ü,·□BfQ□[f€ fRf“fgf□□[f%o,ìŽ² 1 ; ,æ,Ñ 2 ('Ê□í,í X ; ,æ,Ñ Y)
,ì“®,,«,ì”íí,ð²□®,·,é,É,í□A[²□®□î•ñ] ,ìŽwŽ!,É□],Á,Ä,,¼,³,¢□B

Ž² 3 ,ì“® ,« ,ì”îí ,ðž ! ,μ ,Ü , · □ B f Q □ [f € f R f “ f g f □ □ [f % , ðž² 3 , ì“® , « , ì”îí , ð²² □ ® , · , é , É , í □ A [² □ ® □ î • ñ] , ðž w ž ! , É □ , Á , Ä , - , ¾ , ³ , ¢ □ B

Ž² 4 ,ì“®«,ì”îí,ðž!,μ,Ü,·□BfQ□[f€ fRf“fgf□□[f%o,ìŽ² 4 ,ì“®«,ì”îí,ð²²□®,·,é,É,í□A[²□®□î•ñ] ,ìžwŽ!,É□],Á,Ä,-
,¾,¾,¢□B

Ž² 5 ,ì“® ,« ,ì”îí ,ðž ! ,μ ,Ü , · □ B f Q □ [f € f R f “ f g f □ □ [f % , ðž² 5 , ì“® , « , ì”îí , ð²² □ ® , · , é , É , í □ A [² □ ® □ î • ñ] , ðž w ž ! , É □ , Á , Ä , - , ¾ , ³ , ¢ □ B

Ž² 6 ,ì"®,«,ì"íí,ðž!,μ,Ü,·□BfQ□[f€ fRf“fgf□□[f%o,ìŽ² 6 ,ì"®,«,ì"íí,ð²²□®,·,é,É,í□A[²□®□î•ñ] ,ìžwŽ!,É□],Á,Ä,-
,¾,¾,¢□B

fnfbfg fXfCfbf` (POV) ,đ□ã%°□¶%E,É"®,©,·,Æ□A,»,"îÊ'u,đŽ!,μ,Ü,·□BfQ□[f€ fRf"fgf□□[f%,ìfnfbfg
fXfCfbf` (POV) ,đ'²□®,·,é,É,í□A["²□□¶ñ] ,lŽwŽ!,É□],Á,Ä,,¾,³,¢□B

fQ□[f€ fRf“fgf□□[f%
Éf%₀f_□[Ü,½,Íyf_f<,^a,,é□ê□‡□A,Ü,½,Í•ÊÆÂ,Éf%₀f_□[Ü,½,Íyf_f<,ð•t,¯,½□ê□‡,Í□AfQ□[f€
,Â□³□í,ÉŽg,!,é,æ,α,É,-,é,½,β,É [f%₀f_□□ ,ð'!ð,μ,Ü,·□B

fQ[f€ fRf“fgf[f%,đ’@,·,é,É,íA,±,±,đfNfŠfbfN,μ,Ü,·B’2@,·,é,±,Æ,É,æ,èAfQ[f€ fRf“fgf[f%,
,lŽ²,l“@,«,|”í[ªY’è,³,ê,Ü,·BfQ[f€ fRf“fgf[f%,ªfnfbfg fXfCfbf` (POV) ,đŽ,Á,Ä,¢,éê±,íA,±,l<@“\
,àY’è,Á,«,Ü,·B

Ž² 1 , ,æ,Ñ 2 ,l“®,«,l”íí,ðŽ!,μ,Ü,·□BfQ□[f€ fRf“fgf□□[f%,lŽ² 1 , ,æ,Ñ 2 ('Ê□í,í X , ,æ,Ñ Y)
,l“®,«,l”íí,ð²□®,·,é,É,í□A[²□®□í•ñ] ,lŽwŽ!,É□],Á,Ä,,¼,³,¢□B

Ž² 3 ,ì“®,«,ì”îí,ðž!,μ,Ü,·□BfQ□[f€ fRf“fgf□□[f%o,ìŽ² 3 ,ì“®,«,ì”îí,ð²²□®,·,é,É,í□A[²□®□î•ñ] ,ìžwŽ!,É□],Á,Ä,-
,¾,¾,¢□B

Ž² 4 ,ì“®,«,ì”îí,ðž!,μ,Ü,·□BfQ□[f€ fRf“fgf□□[f%o,ìŽ² 4 ,ì“®,«,ì”îí,ð²²□®,·,é,É,í□A[²□®□î•ñ] ,ìžwŽ!,É□],Á,Ä,-
,¾,¾,¢□B

,±,ìfēLfXfg,í□A²□@□□ì<Æ,ìŠēfXfēfbfv,ð□à-¾,μ,Ü,·□B

Ž² 1 , ,æ, Ñ 2 , ì“® , « , ì”í“í , ð f e f X f g , · , é , ½ , ß , É Ž g , ¢ , Ü , · □ B f e f X f g f { f b f N f X , ì 4 , Â , ì Š p , · , × , Ä , É ^ Ú “ ® , μ , Ä , Ý , Ä , , ¾ , ³ , ¢ □ B Ž² 1
 , ,æ, Ñ 2 , ^a □ ³ , μ , ” ½ % ž , μ , È , ¢ □ ê □ ‡ , Ì □ A f Q □ [f € f R f “ f g f □ □ [f % , ð □ Ä ‘ □ ® , μ , Ä , , ¾ , ³ , ¢ □ B

Ž² 3 ,l"®,«,l"íí,ðfexfg,.,é,½,ß,ÉŽg,¢,Ü,·BfefXfg f{fbfNfX,ìã%°,É^Ú"®,μ,Ä,Ý,Ä,,¾,¾,¢BŽ² 3 ,ª³,μ,-
"½%ž,μ,È,¢ê¢†,íAfQ[f€ fRf"fgf[f%ø,ðÄ'²®®,μ,Ä,,¾,¾,¢B

Ž² 4 ,l"®,«,l"íí,ðfexfg,·,é,½,ß,ÉŽg,¢,Ü,·BfefXfg f{fbfNfX,ì□ã%°,É~Ú"®,μ,Ä,Ý,Ä,,¾,¾,¢□BŽ² 4 ,ª□³,μ,-
"½%ž,μ,È,¢□ê□‡,í□AfQ□[f€ fRf"fgh□□[f%ø,ð□Ä'²□®,μ,Ä,,¾,¾,¢□B

Ž² 5 ,l"®,«,l"íí,ðf efXfg, .,é,½,ß,ÉŽg,¢,Ü, ·Bf efXfg f{fbfNfX,ì ¢ã%°,É^Ú"®,μ,Ä,Ý,Ä,,¾,¾,¢BŽ² 5 ,ª ¢³,μ,-
"¹½%ž,μ,È,¢ ¢ê ¢‡,í ¢AfQ ¢[f€ fRf"fgf ¢ ¢[f%°,ð ¢Ä'² ¢®,μ,Ä,,¾,¾,¢ ¢B

Ž² 6 ,l"®,«,l"íí,ðfexfg,·,é,½,ß,ÉŽg,¢,Ü,·BfefXfg f{fbfNfX,ì□ã%°,É~Ú"®,μ,Ä,Ý,Ä,,¾,¾,¢BŽ² 6 ,ª□³,μ,-
"½%ž,μ,È,¢□ê□‡,í□AfQ□[f€ fRf"f gf□□[f%°,ð□Ä'²□®,μ,Ä,,¾,¾,¢□B

fQ[f€fRf“fgf□□[f%o,lfnfbfqfXfCfbf` (POV) ,ðfefXfg,.,é,½,ß,ÉŽg,¢,Ü,·□BfnfbfqfXfCfbf` (POV)
,ðfefXfg,.,é,É,í□A□ã%o□¶%oE,É“®,©,μ,Ä,Ý,Ä,,¾,³,¢□B□³,μ,"½%oŽ,μ,È,¢□ê□‡,í□AfQ□[f€fRf“fgf□□[f%o
,ð□Ä'²□®,μ,Ä,,¾,³,¢□B

*f*Q□[*f*€ *f*R*f*“*f*g*f*□□[*f*%₀,*l**f*{*f*^*f*“,*ð**f*e*f*X*f*g,μ,Ü,·□B^ê“x,É 1 ,Â,,*Â*□A%₀Ÿ,μ,Ä,Ý,Ä,,¾,³¢□B*f*{*f*^*f*“”Ô□†,Í□A*f*Q□[*f*€
*f*R*f*“*f*g*f*□□[*f*%₀,*l*□»‘¢£³,ÂŠ₀₀,è“–,Ä,ç,ê,Ä,¢,Ü,·□B

fnfbfg fXfCfbf` (POV) ,đ²□®,.,é,Æ,«,«□AŠefXfefbfv,)ĲĚă,É,±,lf{f^f",đfNfŠfbfN,·é,©□A,Ü,½,Í Enter
fL□[,đ%Ÿ,μ,Ä,,¾,³,¢□B

'²»»»i«Æ,ì'O,ìfXfefbfv,É–ß,è,Ü,·»BÆ»»Ý,ìŽ²,í²»»,³ê,È,¢,Ü,Ü,É,È,é,©»A,Ü,½,íÆ³,ì²»®'ì,É–ß,è,Ü,·»B

Œ»□Ý,ì²□»fXfefbfv,ðfXfLfbfv,μ,Ä□AŽŸ,É²□»,.,éfRf“fgf□□[f<,É~Ú“@,μ,Ü,.□BŒ»□Ý,ìŽ²,í²□»,³,ê,È,¢
,Ü,Ü,É,È,é,©□A,Ü,½,íŒ³,ì²□@!É–β,è,Ü,.□B

fnfbfg fXfCfbf` (POV) ,đ²».,.é,Æ,«,íAŠefXfefbfv,ìĚă,É,±,ìf{f^f“,đfNfŠfbfN,.,é,©A,Ü,½,í Enter
fL[,đ%Ÿ,μ,Ă,,¾,³,¢B

'²»»»i«Æ,ì'O,ìfXfefbfv,É-ß,è,Ü,·»BÆ»»Ý,ìŽ²,í²»»,³ê,È,¢,Ü,Ü,É,È,é,©»A,Ü,½,íÆ³,ì²»®'ì,É-ß,è,Ü,·»B

Œ»□Ý,ì²□»fXfefbfv,ðfXfLfbfv,μ,Ä□AŽŸ,É²□»,.,éfRf“fgf□□[f<,É~Ú“@,μ,Ü,.□BŒ»□Ý,ìŽ²,í²□»,³,ê,È,¢
,Ü,Ü,É,È,é,©□A,Ü,½,íŒ³,ì²□@!É–β,è,Ü,.□B

