

|CŸX¨t²İ⊞W©Ò\w,Ë^{ao1}CÀ,±±ˆî¾¹;C|pªG±z·Qn´ú,Õ;B³]©w©Î«³]±±ˆî¾¹^{ao}ÆF±Ó«×;A½Đçİ¨¨úŸ!;AμM«á«ö⊞@⊞U [⊞°@e];C

«ö@UÿH·s¼W·s^{ao}CÀ,±±~734¹;C

«ö@UÿH²¼°F©Ö;í"úª01CÀ,±±T¾¹;C

«ö@UÿH´ú,Ö;B³]©w©î«³]¹CÀ,±±´î¼¹ªÆF±Ó«×;C

!CŸX©Ò!³±z!w,Ë±§!CÀ,±±~!¾¹ª±±~!¾¹ ID;C±zŸ!Û!æÄÜ§ó«ü©wµ¹~CÓ¹CÀ,±±~!¾¹ª±± ID;C

|CŸX±z~tî±W©Ò|w,Ë^{±01}CÀ,±±~T341;C

|CŸXŸØ«e«ü©wµ¹·CÓ ID º±±·î¾¹ ID ºî·CÀ,±±·î¾¹;C

çïú±±î¼¹ID «á«ö@ªUï¹¶µ¥Ø;A¥iÄÜ\$ó«ü©wµ¹¥¹ª¹CÀ,±±î¼¹;C

!p^aG±z^{ao}CÀ,±±~î¾4¹³s±µ°δ»Ýn³³s±µ°δÀX°Êµ{!;±~â°ö;æ;A«h½D±q¹²M³æ±±çî¾4Ü;C

Y|b³s½uª±¹CÀ,®ÉµoŸÍ¼Æ¾Ú¾÷°ÝÃD;A½D²M°£¡⊞è¶ŏ;C

±N¹CÀ,±±ˆî¾¹ΨHÃþ«¬(Âù«ö¶s,¡æ¾PÁa±ì) ▯Î²£«~¹WºÛ (Microsoft SideWinder 3D Pro)
'C¥X;C¡pªG¥i¯ à;A½D¿i¾Û±z¹CÀ,±±ˆî¾¹¯S¹¾º²£«~¹WºÛ;C
¡pªG¥¼¡C¥X±z¹CÀ,±±ˆî¾¹º²£«~¹WºÛ©ÎÃþ«¬;A½Ð«öº@ºU [·s¼Wˆˆä¥L] ¥H¡w,Ë¥¹ºÁXºÊµ{¡¡¡A©Î«öº@ºU [¡Ûq]
¥H«Ø¥ß±z'ÛºvªÁXºÊµ{¡¡¡C

|p^aG±z^{ao1}CÀ,±±~î¾41±£|b±±~î¾41±o2M³æ±±;A½Ð«ö±@±U_l¹³B;C

«ü©w±z¹CÀ,±±î¾¹©Òªª¶b;CÁôµM·||³·ÖΨ~;A|ýÂù¶b¹CÀ,±±î¾¹¤@¯ë´£·Ñ¤W¤U»PΨªΨk²¾°ÊΨ¯à;C|Ó¤T¶b¹CÀ,±
±î¾¹¤@¯ë´£·Ñªªù±±îΨ¯à;AΨ¶b¹CÀ,±±î¾¹«h³q±´£·Ñªªùªªè|V¾D±±¾¹Ψ¯à;C

«ü©w±z¹CÀ,±±î¾¹©Ö¹³ªº«ö¶s¼Æ¡C

|p^aG±z^{ao}CÀ,±±~î¾¹±£¬OÂ²©ö^{ao}.n±î;A½Đçĩ"ú"ä±±±@Óçĩµ;C

«ü©w¬°±z©Ö'³;AŸBYiŸŸ©ó,'æ¼ÖÀÀµ{'i°±±~Ÿ¼¹;C

«ü©w¬°±z©Ò₁³;₁AŸBŸi©¹□KÓ□è₁V²₃⁴°Ê^{ao}Ä²₂í₁;₁□è₁V±±^ˆ₃⁴₁;₁A³q±^ˆ₁³ˆâÓ^ˆŸ|Ó«ö^ˆ₁s;₁C

«ü©w±z^{ao}±±˘î¾¹ªı̇pı̇³çû½üı̇Bªoªü½ñªOı̇î·Û˘®½ñªOı̇C

«ü©w±z^{ao1}CÀ,±±˘ĩ¾¹p_i³μøÄ± (POV) ÀY²̄_iCPOV ÀY²̄YiÁý±z«ü©w_i'b_çÃ¹ð²WÀĚμø³«Y6^{ao1}_{i,m}©Î²è_iV_iC

‘£˘Ñ⊠@ÓªÀ¶;Áý±z¿é⊠J'Ûq¹CÀ,±±˘˘³⁄¹ªº¶WºÛ;C'¹¶WºÛ·|¥X²{¹b [¹CÀ,±±˘˘³⁄¹] ¹;Û⊠ê¶ôªº [±±˘˘³⁄¹] ²M³æ⊠⊠;C

çİ"úñ«ü©wµ¹¹±±"î¼¹ ID º¹CÀ,±±"î¼¹;C
¹³"Ç¹CÀ,»Ý¹³«ü©wµ¹,Ë,m ID 1 º¹CÀ,±±"î¼¹;C

±N¹CÀ,±±î¾¹ΨHÃþ«¬ (Âù«ö¶s,¹æ¾PÁa±ì) ▯î²£«~¹WºÛ (Microsoft SideWinder 3D Pro)
¹C¥X;C¹pªG¥î¬à;A½D¿î¾Û±z¹CÀ,±±î¾¹¬S¹³º²£«~¹WºÛ¹C

ÅãŸÜ¶b 1 ▯Î 2 ^{a0234°Ê½d³ð};C½Đđí` [ÆF±Ó«×,ê°T] °İ▯▯^{a0}«üŸÜ;AŸH´ú©w¹CÀ,±±`î¼¹▯§¶b 1 ▯Î 2 (³q±`¬O X ▯Î Y)
^{a0234°Ê½d³ð};C

ÄãŸÜ¶b 3 ^{a023}/₄°Ê½d³ð;C½Ð¿í` [ÆF±Ó«×,ê°T] °İ□□^{a0}«üŸÜ;AŸH´ú©w¹CÀ,±±˘T¾¹□§¶b 3 ^{a023}/₄°Ê½d³ð;C

ÄãŸÜ¶b 4^{ao23/4°Ê½d³ð;C½Ð¿í`} [ÆF±Ó«×,ê°T] °İ□□^{ao}«üŸÜ;AŸH´ú©w¹CÀ,±±`T¾¹□§¶b 4^{ao23/4°Ê½d³ð;C}

ÄãŸÜ¶b 5 ^{a023}/₄°Ê½d³ð;C½Ð¿í` [ÆF±Ó«×,ê°T] °İ□□^{a0}«üŸÜ;AŸH´ú©w¹CÀ,±±`T¾¹□§¶b 5 ^{a023}/₄°Ê½d³ð;C

ÄãŸÜ¶b 6 ^{a023}/₄°Ê½d³ð;C½Ð¿í` [ÆF±Ó«×,ê°T] °İ□□^{a0}«üŸÜ;AŸH´ú©w¹CÀ,±±`T¾¹□§¶b 6 ^{a023}/₄°Ê½d³ð;C

ÄãŸÜ⊖W;BŸª;BŸk;B⊖U²¾°Ê®É;A±zμøÄ± (POV) ÄY²⁻ªº;ᵢ,m;C¹⁄₂D¿í˘ [ÆF±Ó«×,ê°T] °İ⊖ªº«üŸÜ;AŸH´ú©w¹CÀ,±±˘î¾¹ªº
POV ÄY²⁻;C

!pªG±zª¹CÀ,±±~î¾¹ªp,¹³ªè,V¾P±±¾¹©Î½ñªO;A©Î±zªw³s±µÓ§Oªªªè,V¾P±±¾¹©Î½ñªO;A½Dçİŭ [ªè,V¾P±±¾¹]
¥H½T©w¥i!b±zª¹CÀ,ªª~İ¥İª§;C

«ö⊞@⊞U¹₁¶µΨOΨi³]©w±z¹CÀ,±±^ˆ¼^{1a0}ÆF±Ó«×;CÆF±Ó«×³]©wΨi³]©w±z¹CÀ,±±^ˆ¼¹⊞§¶b^{a023}°Ê½d³ö;C|p^aG±z^{a01}CÀ,±
±^ˆ¼^{1a}pⁱ³µøÄ± (POV) ÄY²⁻_iA±z⊞]Ψi³]©w^ˆ0S©Ê^{a0}ÆF±Ó«×;C

ÄãŸÜ¶b 1 □Î 2 ^{a0234°Ê½d³ð};C½Đçí` [ÆF±Ó«×,ê°T] °İ□□^{a0}«üŸÜ;AŸH´ú©w¹CÀ,±±`î¼¹□§¶b 1 □Î 2 (³q±`¬O X □Î Y)
^{a0234°Ê½d³ð};C

ÄãŸÜ¶b 3 ^{a023}/₄°Ê½d³ð;C½Ð¿í` [ÆF±Ó«×,ê°T] °İ□□^{a0}«üŸÜ;AŸH´ú©w¹CÀ,±±˘T¾¹□§¶b 3 ^{a023}/₄°Ê½d³ð;C

ÄãŸÜ¶b 4^{ao23/4°Ê½d³ð;C½Ð¿í`} [ÆF±Ó«×,ê°T] °İ□□^{ao}«üŸÜ;AŸH´ú©w¹CÀ,±±`T¾¹□§¶b 4^{ao23/4°Ê½d³ð;C}

$$^1\alpha_a^{\dagger}|r'\rangle \mathbb{E} \tilde{N} \mathbb{E} F \pm \mathbb{O} \ll \times^3 B^2 Z^{a_0} \mathbb{C} \mathbb{O} |^3 \mathbb{B} \mathbb{E} J; C$$

Ÿİ´Ó´ú,Ö¶b 1 ±İ 2 ^{ao23}4°Ê½d³ö;C½Đ¹Á,ÖÄ²±İ´ú,Ö±è¶6^{ao}©Ò³·±,·;C_lpªG¶b 1 ±İ 2 Ÿ¼Ÿ¿½T^l^À³;A½Đ¹Á,Ö«³]¹CÀ,±
±·î¾¹^{ao}ÆF±Ó«×;C

ŸİˆÓ´ú,Ö¶b 3^{ao2¾}°Ê½d³ð;C½Đ¹Á,ÖÄ²ıİ´ú,Öıē¶ô^{ao3}»°Ýıİ©³°Ý;CıpªG¶b 3 Ÿ½Ÿı½Tı^À³;A½Đ¹Á,Ö«³ıCÀ,±
±ˆı¾¹aoÆF±Ó«×;C

$$\mathbb{Y}\mathbb{I}^{\circ}\acute{\text{O}}\acute{\text{u}},\tilde{\text{O}}\mathbb{I}\mathbb{b}\text{ }4^{\text{ao}23\text{ }4^{\circ}\hat{\text{E}}\frac{1}{2}\text{d}3\hat{\text{o}};\text{C}\frac{1}{2}\text{D}^1\acute{\text{A}},\tilde{\text{O}}\ddot{\text{A}}^2\text{f}\acute{\text{u}},\tilde{\text{O}}\text{e}\mathbb{I}\hat{\text{o}}^{\text{ao}3}\rangle^{\circ}\acute{\text{Y}}\text{f}\text{C}^{\text{3o}}\acute{\text{Y}};\text{C}\text{p}^{\text{a}}\text{G}\mathbb{I}\mathbb{b}\text{ }4\text{ }\mathbb{Y}\frac{1}{4}\mathbb{Y}\text{ }\text{ }\frac{1}{2}\text{T}\text{I}^{\wedge}\hat{\text{A}}^3;\text{A}\frac{1}{2}\text{D}^1\acute{\text{A}},\tilde{\text{O}}\langle^3\rangle\text{I}\text{C}\hat{\text{A}},\pm\pm\hat{\text{T}}\text{ }4^1\text{ao}\text{ }\mathbb{A}\text{F}\pm\acute{\text{O}}\langle\rangle;\text{C}$$

ŸİˆÓ´ú,Ö¶b 5 º²¼°Ê½d³ð;C½Đ¹Á,ÖÄ²ıİ´ú,Öıē¶ôº»°Ýıİ©³°Ý;CıPªG¶b 5 ¥¼¥ı½Tı^À³;A½Đ¹Á,Ö«³ıCÀ,±
±ˆı¼¹ºÆF±Ó«×;C

ŸİˆÓ´ú,Ö¶b 6^{ao2¾}°Ê½d³ð;C½Đ¹Á,ÖÄ²ıİ´ú,Öıē¶ô^{ao3}»°Ýıİ©³°Ý;CıpªG¶b 6 Ÿ!4Ÿı½Tı^À³;A½Đ¹Á,Ö«³ıCÀ,±
±ˆı¾¹aoÆF±Ó«×;C

|p^aG±z^{ao}CÀ,±±~î¾¹ªp_i^³μøÄ± (POV) ÀY²⁻;A«h¥i¥Î·Ó´ú,Õ¥_i;CYn´ú,Õ POV
ÀY²⁻;A½Ð¥H◻W;B¥ª;B¥k;B◻Uª◻¶¶§Ç²³¼°Ê¥_i;C|pªG¥¼¥¿½T_i^Ä³;A½Ð¹Á,Õ«³]¹CÀ,±±~î¾¹ªºÆF±Ó«×;C

´ú,Ö±z^{ao1}CÀ,±±ˆı¼¹«ö¶s;C½Đ@!«,«ö@Ó«ö¶sˆÓ´ú,ÖıC«ö¶s,½X^{ao}«ü©w¬OŸÑ¹CÀ,±±ˆı¼¹»s³y°Ó©ÒˆM©w;C

|b"CO3]©w POV ÀY²¬¤§ÆF±Ó«×ª°"BÆJ«á;A½D«ö₁¹«ö¶s©Î ENTER Áä;C

'^"iÆF±Ó«×³B²zªº«e▣@Ó"̣BÆJ;CŸØ«eªº¶b▣'«O⁻d¬°Ÿ¼³]©w©İ¹w³]¬°ÂÂªÆF±Ó«×È;C

²□¹LŸØ«eªºÆF±Ó«×³]©w¨BÆJ;A¡Ó²³⁄⁴¨î□U□@ÓÆF±Ó«×±±¨î;CŸØ«eªº¶b□´«O¯d¬ºŸ¹⁄⁴³]©w©Î¹w³]¬ºÂÂªºÆF±Ó«×È;C

|b"CO3]©w POV ÀY²¯ ▣§ÆF±Ó«×ª°"BÆJ«á;A½Đ«ö¹¹«ö¶s©Î ENTER Áä;C

'^"iÆF±Ó«×³B²zªº«e▣@Ó"̣BÆJ;CŸØ«eªº¶b▣'«O⁻d¬°Ÿ¼³]©w©İ¹w³]¬°ÂÂªÆF±Ó«×È;C

²□¹LYØ«eªºÆF±Ó«×³]©w`BAEJ;A|Ó²¾`ì□U□@ÓÆF±Ó«×±±`î;CYØ«eªº¶||b□´«O¯d¬ºΨ¼³]©w©Î¹w³]¬°ÂªªºÆF±Ó«×È;C

