

ÁÐ³òÕÑ°²×°μÄÓŦ·¿ØÖÆÆ÷°ÍËũÃÇμÄ×  
‘İ-ıÉÈÇÒª²âÊÔıÇÄäÖÃ»òÖØÐÂÐ£×¼¿ØÖÆÆ÷£-ÇëÔÚÁÐ±ÍÖÐμ¥»÷ËüμÃũ³Æ£-Ê»°óμ¥»÷ı°ÊôÐÔı±ı£

μ¥»÷'Ē'!¿Éİİ¼ÓĐÂμĂŎŦ·¿ØŎÆÆ÷j£

,üÐÃÏÔÊ¾ÔÚ¡°ÓÏ·¿ØÖÆÆ÷¡±ÁÐ±íÖÐµÄÐÃÏø£

É¾ÿÑ¡µÄÖÏ·¿ØÆÆ÷j£

μ¥»÷'Ê'!¿É²âÊÔ¡¢ÃäÖÃ»òÐ£×¼,ÃÓÏ·¿ØÖÆÆ÷¡£

ÁÐ³òÕÑ°²×°ÔÚ,Ã¼⁄₄ÆĚă»úÉİμĂĂ¿,öÓİİ·¿ØÖÆÆ÷μĂ¿ØÖÆÆ÷±êÊŒ·ûĭ£  
¿ÉÒÔ,ü,Ă·ÖĂă,øĂ¿,öÓİİ·¿ØÖÆÆ÷μĂ±êÊŒ·ûĭ£

ÁĐ³ôÕÑº²×ºÔÚ,Ã¼/₄ÆĚă»úÉİμĂÓİİ·¿ØÖÆÆ÷j£

ÁÐ³ö¿ØÖÆÆ÷±êÊ¶·ûÒÔ¼°·ÖÃä,øÃ¿Ô»±êÊ¶·ûµÄÓï·¿ØÖÆÆ÷|£



μ¥»÷'É'¿É,ü,Ä·ÖÅä,øÑ¿¶·±êÊ¶°ÅμÄÓŒ·¿ØÖÆÆ÷¿£

Ö,Ŧ"ÓŦ"·¿ØÖÆÆ÷ŦË¿ÚË"Èç¹ûÐèÒªμÄ»°£©ËùÓÃμÄŦË¿Ú¿£

ÔÊĐÍÆäËûÉè±,£`Èçμ÷ÖÆ½âμ÷Æ÷£©ÖĐ¶ĭĭÓĭĭ·¿ØÖÆÆ÷μÄ²Û×÷ĭ£μ«ÊÇ£¬ÑĭÖĐ,Ã,  
´Ñĭ¿ò»áμ¼ÖÃÓĭĭ·¿ØÖÆÆ÷³ðĭÖÒ»¶ĭμÄ·´ÓĭÑÓ³Ûĭ£  
Èç¹ûÓĭĭ,ËÔÚÓĭĭ·ÖĐ¹¤×÷²»ÖýË·£¬ÇèÇâ³ý,Ã,´Ñĭ¿òĭ£  
Èç¹ûÔÚÍæÁª»úÓĭĭ·Ê±μ÷ÖÆ½âμ÷Æ÷¹¤×÷²»ÖýË·£¬»ðÔÚÊ¹ÓÃÓĭĭ·¿ØÖÆÆ÷Ê±·£ÉúÁËÍøÂç»ðÆäËûÓ²¼pĭÊĭâ£¬Çè  
ÑĭÖĐ,Ã,´Ñĭ¿òĭ£

Í¬Ê±°`ÀàĐÍ£``ÀýÈçÁ½,ö°`Â¥µÄ·ÉĐĐ²Ù×Ý,Ě£©°Í²úÆ·Ăû³Æ£``ÀýÈç Microsoft SideWinder 3D

Pro£©ÁĐ³òÓĬ·¿ØÖÆÆ÷j££Èç¹û¿ÉÄÜ£¬ÇěÑ¡ÔñÓĬ·¿ØÖÆÆ÷µÄ²úÆ·Ăû³Æj££

Èç¹ûĬ

`ÁĐ³òÓĬ·¿ØÖÆÆ÷µÄ²úÆ·Ăû³Æ»òÀàĐÍ£¬Çěµ¥»÷j°Ĭ¼₄ÓÆäËüj±ÒÔ²×°ÆäÇýĬ³ĬĐò£¬»òµ¥»÷j°×ÔĬ°Òåj±ÒÔÖ,Ĭ°

ÓĬ·¿ØÖÆÆ÷µÄÌØĐÔj££

Èç¹úÓŒ·çØÖÆÆ÷ŒÁĐ³öÇÒĂúÓĐ°²×°ĂİÆ¬Çëμ¥»÷´Ě´|;ĚÔÚĬÂÒ»,öŒŒ°çòÉİÆ¬μ¥»÷;°Ó´ĂĂì°²×°;±Ě¬Ě»°ó  
´ŒŒÆÁĂ»ĭăÊ¾²Û×÷;Ě

Èç¹úÓŒ·¿ØÖÆÆ÷Î´ÁĐ³òÇÒĂúĂ»ÓĐ°²×°ĀĬ£¬Çëμ¥»÷´Ē´ĬĬ£¿ÉÖ,Œ´¿ØÖÆÆ÷μĀĬØĐÔĬ£

Ö,¶"ÓŦ·¿ØÖÆÆ÷ÖáμÄÊýÄ¿i£¾4i¹ÜÓÐÀýÍâ£¬Á½ÖáÓŦ·¿ØÖÆÆ÷Í"³£  
¿ÉÒÔÉŦŦÂ°í×óÓÒÒÆ¶ŦŦj£ÊýÖáÓŦ·¿ØÖÆÆ÷Í"³£°ü°¬½ÚÁ÷·§¿ØÖÆj£ÊÄÖáÓŦ·¿ØÖÆÆ÷ÔðÍ"³£  
°ü°¬½ÚÁ÷·§Í·½Ŧð¶Ŧæj£

Ö,¶ÓŦ·¿ØÖÆÆ÷°Å¥µÄÊýÄ¿iE



Ö,¶"ÈùÉèÖÃÓŦ·¿ØÖÆÆ÷μÄÄàĐÍ;£

Ö,¶"ÄúÓÐÒ»,öÓÃ×÷·ÉÐÐ¿ØÖÆÆ÷/,ËµÄÓÏ·¿ØÖÆÆ÷¡£

Ö,¶"ÄúÓÐÒ»„ö¿É³°Ë„ö·½ïðÒÆ¶µÄ`¥Ãþ¶"ïðÓï·¿ØÖÆÆ÷¡£„ÄàÐíµÄÓï·¿ØÖÆÆ÷í³£ÓÐÁ½„ö»ðË„ö°Ä¥¡£

Ö,ŦÖŦ.¿ØÖÆÆ÷ÓÐ.½İòÂİ;¢ÓİÃÂ°İÉ<sup>23</sup>μ½Âİ°âİ£

Ö,¶´ÓŒ·¿ØÖÆÆ÷ÓÐÊÓµă (POV) Í·¿ø¿EPOV ÄÜÈÃÄúÖ,¶´ă¯ÀÀÆÁÄ»İİİåµÃİ»ÖÃ°Í·½İð¿E

¿ÉÔÚĚ

‘|ÊäÈë×Ô¶”ÒåÓĬ.¿ØÖÆÆ÷μĂĂŭ³Æ¡£,ĂĂŭ³Æ½«³öĬÖÔÚÒÑ°²×°ÔŬ¼ÆĚă»úÉĬμ¿ÉÓĂ¿ØÖÆÆ÷ÁĐ±íÖĐ¡£

Ö,ŦıçØÖÆÆ÷ÊÇÓŦı,Ëı£

ïÔÊ¾¿É·ÖÄä,øÑ¡¶´Óï·¿ØÖÆÆ÷μÄ±êÊ¶°Å¡£μ¥»÷¼¿ýí·ÒÔ,ü,Ä¿ØÖÆÆ÷±êÊ¶°Å¡£  
ÓÐÐ©Óï·ÒªÇóÓï·¿ØÖÆÆ÷μÄ¿ØÖÆÆ÷±êÊ¶°Å¡ª 1¡£



ïÔÊ¾Ñ;¶·¿ØÖÆÆ÷±êÊ¶°Å;£ÊÇÒªª,Ã±êÊ¶°Å·ÖÅäÓ¶·¿ØÖÆÆ÷£¬ÇèÔÚ°Ó¶·¿ØÖÆÆ÷±ÁÐ±íÖÐµ¥»÷,Ã¿ØÖÆÆ÷µÃÃû³Æ;£

ÁÐ³ö¿ÉÓÃµÄÖÎ·¿ØÖÆÆ÷¡£

ïÔÊ¾Öá 1 °Í Öá 2 ·½ïðμÄÒÆ¶·¶Î§îÊÈçÒªÔÚÖá 1 °Í Öá 2£¶³£ÊÇ X Öá°Í Y  
Öá£©·½ÏðÐ£×¼ÖÏ·¿ØÖÆÆ÷μÄÒÆ¶·¶Î§£¬Çë°í°Ð£×¼ÐÃ¶±ÇøÓðμÄÏáÊ¾¼²Û×÷î£

ïÔÊ¾Öá 3 ·½ïðμÄÒÆΠ·¶Î§¡£ÈçÒªÓÚÖá 3 ·½ïðÐ£×¼ÓÏ·¿ØÖÆÆ÷μÄÒÆΠ·¶Î§£¬Çê°¡ï°Ð£×¼ÐÃï¢  
¡±ÇøÓðμÄÏáÊ¾²Ü×÷¡£

ĩÔÊ¾Öá 4 ·½ìòµÄÒÆ¶·¶îſî£ÊËçÒªÔÚÖá 4 ·½ìòÐ£×¼Óſ·¿ØÖÆÆ÷µÄÒÆ¶·¶îſ£-Çë°ì°Ð£×¼ÐĀĩ¢  
j±ÇøÓòµĀĭăÊ¾²Û×÷j£

ĩÔÊ¾Öá 5 ·½ìòμÄÖÆ¶·¶îſî£ÊËçÒªÔÚÖá 5 ·½ìòÐ£×¼Óſ·¿ØÖÆÆ÷μÄÖÆ¶·¶îſ£-Çë°î°Ð£×¼ÐĂĩ¢  
j±ÇøÓòμĂĩáÊ¾²Û×÷j£

ĩÔÊ¾Öá 6 ·½ìòμÄÖÆ¶·¶îſî£ÊËçÒªÔÚÖá 6 ·½ìòÐ£×¼Óſ·¿ØÖÆÆ÷μÄÖÆ¶·¶îſ£-Çë°î°Ð£×¼ÐĂĩ¢  
j±ÇøÓòμÄîáÊ¾²Û×÷j£

ÉïĀ×óóòòÆſ̄Ê±ïôÊ¾Êóμă (POV) Í·çμĀĬ»ÖĀĭ£ĒçÒªĐ£×¼ÓĬ·çØÖÆÆ÷μĀ POV Í·çø£¬çĕ°ĵ°Đ£×¼ĐĀĭ¢  
ĵ±ÇøÓòμĀĬăÊ¾²Û×÷ĵ£



Ö,¶"ÓŒ·¿ØÖÆÆ÷ÓÐ·½İò¶æ»ò½Äİ°â£¬»òÊÇ,½¼¼ÓÁËμ¶¶ÀμÄ·½İò¶æ»ò½Äİ°âİ£μ¥»÷'Ë'ÒÔÈ·±  
£·½İò¶æ»ò½Äİ°â½«ÔÚÓŒ·ÖÐ¹¤×÷İ£

μ¥»÷'Ē'|ÒÔÐ£×¼⁄Ôĩ·çØÖÆÆ÷÷ĵ£Ð£×¼⁄¹×÷çÉÉèÖǺÓĩ·çØÖÆÆ÷÷μǺǺǺǺòÐÆ¶·¶ĩšĵ£Éç¹ûÓĩ·çØÖÆÆ÷÷ÓÐÊÓμǺ  
 (POV) Í·çØ£¬Ò²çÉÒÔÐ£×¼⁄,ǺĩòǺ÷÷ĵ£

ïÔÊ¾Öá 1 °Í Öá 2 ·½ïðμǺÒÆ¶·¶î§î£ÈçÒªÔÚÖá 1 °Í Öá 2£í³£Êç X Öá°Í Y  
Öá£©·½ïðÐ£×¼Öî·¿ØÖÆÆ÷μǺÒÆ¶·¶î§£¬Çë°í°Ð£×¼ÐǺ¶î±ÇøÓðμǺìáÊ¾²Ù×÷î£

ĩÔÊ¾Öá 3 ·½ìòμÄÖÆ¶·¶îſî£ÊËçÒªÔÚÖá 3 ·½ìòÐ£×¼Óſ·¿ØÖÆÆ÷μÄÖÆ¶·¶îſ£-Çë°î°Ð£×¼ÐĂĩ¢  
j±ÇøÓòμĂĩáÊ¾²Û×÷j£

ĩÔÊ¾Öá 4 ·½ìòμÄÖÆ¶·¶îſî£ÊËçÒªÔÚÖá 4 ·½ìòÐ£×¼Óſ·¿ØÖÆÆ÷μÄÖÆ¶·¶îſ£-Çë°î°Ð£×¼ÐĂĩ¢  
j±ÇøÓòμĂĩáÊ¾²Û×÷j£

$$\tilde{A}^{\epsilon}\tilde{E}^{\delta}\tilde{D}^{\epsilon}\times^{1/4^2}\tilde{U}^{\times\div}\mu\tilde{A}\tilde{A}_{\zeta,\ddot{o}}^{21}\tilde{O}^{\epsilon}\tilde{j}^{\epsilon}$$

zâÊÔÖá 1 °í 2 ·½lòµÄÒÆ¶·¶lŒjEÇë³¢ÊÔµ½´r²âÊÔ¿òµÄËÄ½ÇiEÈÇ¹ùÖá 1 °íÖá 2  
lìÓl²»ÖýÈ·£¬ÇëÖÐÄÐ£×¼Ól·¿ÖÖÆÆ÷i£

2âÊÔÖá 3 ·½ïðμÄÒÆ¶·¶Î§¡£Çë³¢ÊÔÓǺÓŦ·¿ØÖÆÆ÷ÉĭμÄÖá¿ØÖÆÆ÷μ½´ŦâÊÔ¿ðμǺ¶²¿°ĭμ×²¿¡£ÊÇ¹ûÖá 3  
ĭŦÓ¹²»ÖýÊ·£¬ÇëÖØÐĀÐ£×¼¼ÓŦ·¿ØÖÆÆ÷¡£



²âÊÔÖá 4 ·½ïðµÄÒÆ¶·¶Î§î£Çë³£ÊÔµ½´î²âÊÔ¿ðµÄ¶²¿°îµ×²¿î£ÊË¹ûÖá 4  
ïîÓ¹²»ÖýÊ·£¬ÇëÖÐÐÂÐ£×¼¼Ó¶·¿ðÖÆÆ÷î£

²âÊÔÖá 5 ·½ïðµÄÒÆ¶·¶Î§¡£Çë³¢ÊÔµ½´¡²âÊÔ¿ðµÄ¶²¿°¡µ×²¿¡£ÊË¹ûÖá 5  
ïïÓ¹²»ÖýÊ·£¬ÇëÖÐÐÂÐ£×¼¼Ó¶·¿ðÖÆÆ÷¡£

²âÊÔÖá 6 ·½ïðµÄÒÆ¶·¶Î§¡£Çë³¢ÊÔµ½'¡²âÊÔ¿ðµÄ¶²¿°¡µ×²¿¡£ÊË¹ûÖá 6  
ïïÓ'²»ÖýÊ·£¬ÇëÖÐÐÂÐ£×¼¼Ó¶·¿ðÖÆÆ÷¡£

Èç¹ûÓŒ·¿ØÖÆÆ÷ÓÐÊÓµã (POV) Í·¿ø£-Ôð²ãÊÔËü¿£ÈçÒ²ãÊÔÊÓµã POV  
Í·¿ø£-ÇëÉŒ×óÓÒµØÒÆ¶ËËü¿£Èç¹ûŒÓ¹²»ÖýÊ·£-ÇëÖÐÐÂÐ£×¼¼ÓŒ·¿ØÖÆÆ÷¿£

²ãÊÔÓŦ·¿ØÖÆÆ÷μÄ°Å¥¡£Ã¿Ŧ°ÓŦ·¿ØÖÆÆ÷μÄÒ»¸°Å¥¡£°Å¥±à°ÅμÄ·ÖÅãÓÉÓŦ·¿ØÖÆÆ÷μÄÉú²úÉÌÈ·ŦŦ¡£

Ã¸Ö´ÐÐÐ£×¼ PO V Í·¸øµÄÖ»¸,ö²½ÖèÖ®°ó£¬¶¼Çëµ¥»÷´Ë´|»ð°´ Enter ¼Üj£

·μ»Øμ½Ð£×¼¹ý³îμǺÉĬÖ»²¹½î£μ±Ç°Öá½«±£³ÖĬ̃Ð£×¼₄×´Ĭ¬»ð·μ»ØÖÖÇ°μǺÐ£×¼₄Öμĭ£

l̈ø¹ýμ±Ç°Đ£×¼²¹½Öè£¬×ªμ½ĩÂÖ»‚öÖªĐ£×¼μÄ¿Ø¼₄pı£μ±Ç°Öá½«±£³ÖĩĐ£×¼×´ĩ¬»ð·μ»ØÖÔÇ°μÄĐ£×¼Öμı£



Ã¿Ö´ÐÐÐ£×¼ POv Í·¿øµÄÖ»\_ö²½ÖèÖ®°6£-¶¼Çëµ¥»÷´Ë´!»ð°´ Enter ¼Üj£

·μ»Øμ½Ð£×¼¹ý³îμǺÉĬÔ»²¹½î£μ±Ç°Ôá½«±£³ÖĬ̂Ð£×¼₄×´Ĭ¬»ð·μ»ØÔÔÇ°μǺÐ£×¼₄Öμĭ£

İø¹ýµ±Ç°Đ£×¼²½Öè£¬×ªµ½İÂÖ»,öÖªĐ£×¼µÄ¿Ø¼µİ£µ±Ç°Öá½«±£³Öİ´Đ£×¼×´İ¬»ð·µ»ØÖÔÇ°µÄĐ£×¼Öµİ£

ïÔÊ¾¿ÉÓÃÓÚ°²×°ÐÃÓï·μÄÇý⌈Æ÷¼°Óï·¿ÉÓÃμÄ´ÅÄì¿Ö¼ä¿£ïþ··ÔÚ⌈ÀÖ¼μÄÇý⌈Æ÷Éï,ü,ÃÓï·ÈùÓÃμÄ´ÅÄì¿Ö¼ä°Ù·Ö±È¿£

ÔÚËùÓÐçγΓÆ÷Éï½«Óï·ζÉÓÃμÄ´ÅÄïζÖ¼ä°Û·Ö±È»¹ÔîªÄ¬ÈïÖμj£

μ÷ÕûÓŦ·¿ÉÓÃμÄ´ÅÅ!¿Õ¼ä°Û·Ö±Èj£

ĩÔÊ¾ÓÐ¹Ø´ò¿ªºíÊ¹ÓÃÓĩÒðÁÃìµÃĩêĩ,ÐÃĩ¢ĩ£

ÁÐ³òÔÚÓöÁª»úÅóÓÑÁÄìµÃí-Ê±¿ÉÒÔíæµÄÓíí-¡£



,ÄîÄ¼p²»ÓÃÓÚä¯ÄÄ

