

ED(1)

ed aĭÊÔ¹/₂. a. a. ç aa Ç a° Ō aĭ¥ Ō ¥; ¥ a ¥ ě a ĭ ¥ ³/₄ ¥ Ō; ¹/₄ ³/₄ ā a Ç À a° ĭ a μ a ĭ a b a ¹/₂; £ ¥ ³/₄ ¥ Ō; ¹/₄ ³/₄ ā a ĭ Ê Ñ ²¹/₂ a ĭ w

¥³¥¥³ó¥É;Ê½ñ¹þ²;Ë-íç;ª"ªéªàªëªþ²Ç,µªí¥Õ¥;¥ª
¥ëªò²ç;ªâÊÑ²¹²ªµª»ªþª»ªó;£ÊÔ½,Ãæªí¥Æ¥¥¹¥Èªí¥³¥Ô;¼ªí;£¥Ð¥Ã¥Õ¥
;ªÈ,ÆªÐªàªë"ì»þ¹ª¥Õ¥;¥ª¥ëªÈÆÊªß¹þªþªàªþª¹;£

ed ¥³¥¥³ó¥ÉªíÃ±½ãªÇµ-Â§¹ªªÊ¹¹²Âªªòª.ªÆªªªþª¹;£¥³¥¥³ó¥Éªí;£0,Ä°Ê¾ªªí¥£
¥É¥í¥¹»ØÄêªÈ 1 Ê,»ú¥³¥¥³ó¥Éª-Â³ª;£¼ªªÈ-í×ªÇª£ªàªÐÂ¾ªªí¥Ñ¥é¥á;¼¥çª-Â³ªªþª¹;£
ª³ªàªéªí¥£¥É¥í¥¹ªí¥Ð¥Ã¥Õ¥;Ãæªí"ì¹Ô°Ê¾ªªí¹Ôªò»ØÄêª.ªþª¹;£¥£¥É¥í¥¹ªí»ØÄêª-ªÊª±
ªàªÐ;£¥Ç¥Õ¥©¥ë¥Èªí¥£¥É¥í¥¹ª-ÆÀªéªàªþª¹;£

°ìÈìªÈ;£1 ¹ÔªÈ 1,Äªí¥³¥¥³ó¥ÉªÀª±ªò»ØÄêª.ªþª¹;£¥³¥¥³ó¥ÉªíÃæªÈªí;£¥Ð¥Ã¥Õ¥
;ªØªí¥Æ¥¥¹¥ÈÄÊ²Ãªòµö²Ãª¹ªëªâªíªâª£ªêªþª¹;£ ed ª-¥Æ¥¥¹¥Èªò¼ªðª±ÆþªàªÆªª
ªë»þªòÆþíí¥â;¼¥ÉªÈªªªªþª¹;£ª³ªí¥â;¼¥É»þªíªÉªí¥³¥¥³ó¥ÉªâÇ§¹¼ªµªàªþªª»ªó;£
ª¹ªÙªÆªíÆþííªíÃ±ªÈ½,ÃÑªµªàªëªÀª±ªÇª¹;£Æþíí¥â;¼¥Éªí;£¹ÔÆ-ªÈªªª±ªë¥Ô¥ê¥ªÉ.
ªíªßªÈªëªÃªÆ²ò½üªµªàªþª¹;£

ed ªí;£Àµµ-É½,½µÈ;ªí,ÃÄêªµªàªç.Á¼ªªò¥µ¥Ý;¼¥Èª.ªþª¹;£1
,ÄªíÀµµ-É½,½ªí"ìÁÈªíÊ,»úíóªò»ØÄêª.ªþª¹;£
ª³ªíÊ,»úíó½,¹Çªíí×ÁÇªí;£Àµµ-É½,½ªÈªëªÃªÆ°ìÃ×ª.ªçªÈªªªªþª¹;£°Ê²¼ªÈ¼ªª.ª
çÀµµ-É½,½ªí»ÃíªÈªªªªÆ;£;ÊÊ,»ú;ÊªÈªí²þ¹Ô°Ê³ªíª¹ªÙªÆªíÊ,»úªò°Õì£ª.ªþª¹;£

1. $\mathcal{A}\tilde{A}^{1/4}\hat{E}_3 \gg \acute{u}^{\circ}\hat{E}^{3^{\circ}}\hat{a}\hat{I} \ 1 \ \hat{E}_3 \gg \acute{u}\hat{a}\hat{I};\Phi$
 $\hat{a}^{1/2}\hat{a}\hat{I}^{1/4}\ll \zeta\hat{E}\hat{a}\hat{E}^{\circ}\hat{I}\tilde{A}\times\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}\mathcal{A}\tilde{A}^{1/4}\hat{E}_3 \gg \acute{u}\hat{a}\hat{I};\Phi\hat{A}\mu\mu-\hat{E}^{1/2},_{1/2}\hat{a}\hat{I}\mathbb{I}\hat{e}\hat{A}\acute{U}\hat{a}\hat{e}\hat{E}_3 \gg \acute{u}\hat{a}^{\hat{a}}\hat{a}\hat{e}\hat{a}\hat{O} \setminus \cdot^{\wedge}\$ \hat{a}\hat{C}\hat{a}^1;\mathcal{E}$
2. $\mathbb{Y}\hat{O}\mathbb{Y}\hat{e}\mathbb{Y}^{\hat{a}}\mathbb{Y}\hat{E} \ . \ \hat{a}\hat{I};\Phi\hat{C}\hat{a}^{\circ}\hat{O}\hat{a}\hat{I} \ 1 \ \hat{E}_3 \gg \acute{u}\hat{a}\hat{E}^{\circ}\hat{I}\tilde{A}\times\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}$
3. $\setminus \hat{a}\hat{I} \ \hat{a}\hat{a}\hat{E}\hat{C}\hat{a}^{\circ}\hat{O}\hat{a}\hat{I} \ 1 \ \hat{E}_3 \gg \acute{u}\hat{a}-\hat{A}^3\hat{a}^{\neg}\hat{A}\mu\mu-\hat{E}^{1/2},_{1/2}\hat{a}\hat{I};\Phi\hat{a}^{1/2}\hat{a}\hat{I}\hat{E}_3 \gg \acute{u}\hat{a}-\zeta\hat{O}\gg \acute{u}\hat{a}\hat{b}\hat{a}\zeta\hat{a}\hat{I} \ () \ \hat{a}\hat{I}^{3/4}\hat{I}^1\hat{C}\hat{a}\hat{O}^{1/2}\hat{u}\hat{a};\Phi$
 $\hat{a}^{1/2}\hat{a}\hat{I}\hat{E}_3 \gg \acute{u}\hat{a}\hat{E}^{\circ}\hat{I}\tilde{A}\times\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}$
4. $\mathbb{I}\hat{O}\hat{a}\hat{C}\hat{a}\hat{E}\hat{a}\hat{E}_3 \gg \acute{u}\hat{I}\hat{O} \ s \ \hat{a}\hat{O}\hat{a}\ll \hat{a}\hat{O}\hat{a}\ll \hat{a}\tilde{A}\hat{a}^3\hat{a}\hat{C}\hat{a}^{\neg}\hat{a}^{\neg}\hat{a}\tilde{A}\hat{a}\zeta \ [s] \ ;\hat{E}\hat{a}\hat{b}\hat{a}\zeta\hat{a}\hat{I} \ [^{\wedge}s] \ ;\hat{E}\hat{a}\hat{I};\Phi\hat{E}_3 \gg \acute{u}\hat{I}\hat{O} \ s \ \tilde{A}\hat{e}\hat{a}\hat{I}\hat{a}\hat{a}$
 $\hat{a}^{\circ}\hat{a}\hat{I}\hat{a}\ll \hat{a}\hat{I} \ 1 \ \hat{E}_3 \gg \acute{u};\hat{E}\hat{a}\hat{b}\hat{a}\zeta\hat{a}\hat{I}\hat{a}\hat{a}\hat{a}^{\circ}\hat{a}\hat{I}\hat{a}\hat{C}\hat{a}\hat{a}\hat{E}\hat{a}\hat{a} \ 1 \ \hat{E}_3 \gg \acute{u};\hat{E}\hat{a}\hat{E}^{\circ}\hat{I}\tilde{A}\times\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}\hat{E}_3 \gg \acute{u}\hat{I}\hat{O} \ s \ \tilde{A}\hat{e}\hat{a}\hat{I} \setminus$
 $\hat{a}\hat{I}\mathcal{A}\tilde{A}\hat{E}\hat{I}\hat{a}\hat{I}^{\circ}\hat{O}\hat{I}\hat{E}\hat{a}\hat{O}\hat{a}\hat{a}\hat{A}\hat{a}\hat{b}\hat{a}\gg \hat{a}\hat{O};\mathcal{E}\hat{E}_3 \gg \acute{u}\hat{I}\hat{O} \ s \ \tilde{A}\hat{e}\hat{a}\hat{I} \] \ \hat{a}\hat{I};\Phi\hat{s}\hat{a}\hat{I}^{\circ}\hat{C}^{1/2}\hat{e}\hat{a}\hat{I}\hat{E}_3 \gg \acute{u}\hat{a}\hat{E}\gg \emptyset\hat{A}\hat{e}\hat{a}\cdot\hat{a}\zeta\hat{a}\hat{E}\hat{a}\hat{a}\hat{A}\hat{a}\pm$
 $\hat{I}\Phi\mathcal{A}\tilde{A}\hat{E}\hat{I}\hat{a}\hat{I}^{\circ}\hat{O}\hat{I}\hat{E}\hat{a}\hat{O}^{1/4^{\circ}}\hat{a}\hat{a};\Phi \] \ ^{1/4}\ll \zeta\hat{E}\hat{a}\hat{E}^{\circ}\hat{I}\tilde{A}\times\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}\hat{E}_3 \gg \acute{u}\hat{I}\hat{O} \ s \ \tilde{A}\hat{e}\hat{a}\hat{I}\hat{E}_3 \gg \acute{u}\hat{I}\hat{O} \ a-b \ \hat{a}\hat{I};\Phi\hat{a} \ \hat{a}\hat{E} \ \hat{b} \ \hat{a}-$
 $EUC \ \hat{a}\hat{I}\mathbb{Y}^3;\hat{I}^{1/4}\mathbb{Y}\hat{E}^{1/2}\hat{C}\hat{a}\hat{E}\hat{a}\hat{E}\hat{a}\hat{e};\Phi\hat{a} \ \hat{a}\hat{E} \ \hat{b} \ \hat{a}-\mathcal{A}\hat{e}\pm^{\circ}\hat{I}\hat{a}\mathbb{Y}^3;\hat{I}^{1/4}\mathbb{Y}\hat{E}\mathbb{Y}\gg \mathbb{Y}\tilde{A}\mathbb{Y}\hat{E}\hat{a}\hat{I}^{3/4}\hat{I}^1\hat{C}\hat{a}\hat{E};\Phi\hat{a}^{1/2}\hat{a}\hat{I}\hat{E}\hat{I}^{\circ}\hat{I}\mathcal{A}\hat{a}\hat{I} \ EUC$
 $\hat{a}\hat{I}\hat{E}_3 \gg \acute{u}\hat{a}\hat{O}^{\circ}\hat{O}\hat{I}\hat{E}\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}$
5. $\ast \hat{a}-\hat{a}\hat{I} \ \hat{a}\hat{a}\hat{E}\hat{A}^3\hat{a}^{\neg} \ 1 \ ;\hat{A} \ 4 \ \hat{a}\hat{I}\cdot\hat{A}^{1/4^{\circ}}\hat{a}\hat{I}\hat{A}\mu\mu-\hat{E}^{1/2},_{1/2}\hat{a}\hat{I};\Phi 0 \ ,\hat{A}\hat{a}\hat{b}\hat{a}\zeta\hat{a}\hat{I} \ 1$
 $\ ,\hat{A}^{\circ}\hat{E}^{3/4}\hat{a}\hat{I}\hat{A}\mu\mu-\hat{E}^{1/2},_{1/2}\hat{a}\hat{O}\cdot\ll \hat{a}\hat{e}\hat{E}\hat{O}\hat{a}\cdot\hat{a}\zeta\hat{I}\hat{O}\hat{a}\hat{E}^{\circ}\hat{I}\tilde{A}\times\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}$
6. $1 \ ;\hat{A} \ 8 \ \hat{a}\hat{I}\cdot\hat{A}^{1/4^{\circ}}\hat{a}\hat{I}\hat{A}\mu\mu-\hat{E}^{1/2},_{1/2} \times \hat{a}\hat{O} \ \setminus (\ \hat{a}\hat{E} \ \setminus) \ \hat{a}\hat{C}\hat{a}^{\neg}\hat{a}^{\neg}\hat{a}\tilde{A}\hat{a}\zeta \ \setminus (x\setminus) \ \hat{a}\hat{I};\Phi\hat{x} \ \hat{a}\hat{E}^{\circ}\hat{I}\tilde{A}\times\hat{a}\cdot\hat{a}\hat{b}\hat{a}^1;\mathcal{E}$

7. \ αί, åë çô»ú n α-Â³α⁻Àμμ-É½, ½αϊ;ϕn ÈÖìÜαί \
(αÇ»ìαβαèÀμμ-É½, ½αίÊ, »úíóαί¥³¥Ô;¼αÈ°ìÃ×α.αβα¹;£
 8. 1 ¡Á 8 αί·Á¼°αίÀμμ-É½, ½ x αÈ;ϕ1 ¡Á 7 αί·Á¼°αίÀμμ-É½, ½ y αίίϕ·èαϊ;ϕx αί°ìÃ×αÈ y
αί°ìÃ×αίίϕ·èαÈ°ìÃ×α.αβα¹;£α³αί°ìÃ×αϊ;ϕy αί°ìÃ×α-μòαμαìαè, Âαê;ϕαÇααèαÀα± x
αί°ìÃ×α-Ã¹α⁻Â³α⁻αèα!αÈ¹Ôαϊαìαβα¹;£
 9. Æ-αÈ ^ αίαÄα⁻;Êαβαζαϊ, åαíαÈ \$ αίαÄα⁻;Ê1 ¡Á 8 αί·Á¼°αίÀμμ-É½, ½αϊ;ϕ¹Ôαί°, Ã¼;Êαβα
ζαϊ±!Ã¼;ÊαÈϒ⁻À©ÂαÈ°ìÃ×α.αβα¹;£
 10. 1 ¡Á 9 αί·Á¼°αίÀμμ-É½, ½αϊ;ϕ¹ÔαίÃæαÇ°, μίαάαÇ»²¾Èα.αζÃæαί°ìÈÖÃ¹αα
αâαίαÈ°ìÃ×α.αβα¹;£
 11. ϒòαίÀμμ-É½, ½αϊ;ϕ°Ç, åαÈ»ØÄêαμαìαζÀμμ-É½, ½αÈ°ìÃ×α.αβα¹;£
- Àμμ-É½, ½αϊ¥ϕ¥É¥ì¥¹αÇ¹Ôαò»ØÄêα.αζαê;ϕ1, Äαί¥³¥β¥ó¥ÉαÇ;Ê, å½Òαί s αί²òÀâ»²¾È;ÊÃÖ
¹¹α¹αÜα¹Ôαί°ìÃÖαò»ØÄêα.αζαêα¹αèαίαÈ»Èαϊαìαβα¹;£Àμμ-É½, ½αί¥ά¥ζ¥¥ã¥é¥⁻¥
ζαòÄì¾ìÊ, »úαÈα.αÆ»Èαααζαα»βαϊ;ϕα½αίÊ, »úαί°αÈ \ αòÃÖα⁻α³αÈαÇ²ÃÇ½αÈαÊαêαβα¹;£
α³αìαìαβαζ;ϕÀμμ-É½, ½αòϒèÀÚαèÊ, »ú;ÊÄì¾ì / ;ÊαÈ \ α½αίαâαίαÈαâαϕαÆαϊαβαêαβα¹;£

ed æĒæª±æĕ¥¢¥É¥ì¥¹¹Ôæðíý²ðæ¹æĕæĒæĭ;¢¾¼ïæĒ, ½ºß¹ÔĭĒcurrent lineĭĒæ¬Ē,ºßæ·æÆæææĕæ³æĒæðĀĭæĀæÆæææĕÉ¬ĭ×æ¬æ¢æĕæĕæ¹ĭ£ºĭĒĒĀæĒĭ;¢¥³¥ĕ¥ó¥ÉæĒæèæĀæÆ»²³⁄₄ĒæµæĭæĲºÇ,åæĭ¹Ôæ¬, ½ºß¹ÔæĒæĒæĕæĕæ¹ĭ£æ·æ«æ·ĭ¢, ½ºß¹ÔæØæĭĀµ³ĭæĒ,ú²ĭæĭĭ;¢¥³¥ĕ¥ó¥ÉæĭĒ¹⁄₂, ½æĭæĕæĒæÇµĀĭĀæµæĭæĕæ¹ĭ£¥¢¥É¥ì¥¹¹æĭºĒ²¹⁄₄æĭæèæĭæĒ¹¹⁄₂Ā®æµæĭæĕæ¹ĭ£

1. Ē,»ú . æĭ, ½ºß¹Ôæð¥¢¥É¥ì¥¹¹æ·æĕæ¹ĭ£
2. Ē,»ú \$ æĭ¥Ð¥Ā¥Œ¥Œ¥;æĭºÇ¹⁄₂æ¹Ôæð¥¢¥É¥ì¥¹¹æ·æĕæ¹ĭ£
3. ½¹⁄₂ĲĒĲô n æĭ¥Ð¥Ā¥Œ¥Œ¥;æĭ n ¹ÔĭÛæð¥¢¥É¥ì¥¹¹æ·æĕæ¹ĭ£
4. 'x æĭĭ¾⁄₄Āº x æ¬¥ĕĭ¼¥¬æµæĭæĲ¹Ôæð¥¢¥É¥ì¥¹¹æ·æĕæ¹ĭ£x æĭ ASCII æĭ¾⁄₄®Ē,»úæÇæĒæ±æĭæÐæĒæĕæĕæ»æóĭ£¹Ôæĭ,å¹⁄₂Ôæĭ k ¥³¥ĕ¥ó¥ÉæĒæèæĀæÆ¥ĕĭ¼¥¬æµæĭæĕæ¹ĭ£
5. ¥¹¥é¥Ā¥·¥å / æÇºĭæĕæĭæĲĀµµ¬É¹⁄₂, ½æĭĭ;¢¥Ð¥Ā¥Œ¥Œ¥ĭæð, ½ºß¹Ôæ«æéĀºĒý,ĕæĒĀµº÷æ·ĭ¢Āµµ¬É¹⁄₂, ½æĒºĒĭĀ×æ·æĲĒ,»úĭóæð'ĕæàºÇ¹⁄₂éæĭ¹ÔæÇ»ßæĕæĕæĕæ¹ĭ£æĕæ·É¬ĭ×æĒæéĭ¢Āµº÷æĭ¥Ð¥Ā¥Œ¥Œ¥;æĭĀèÆ¬æ«æéĀ³æ±æÆææª³æĒæææĕæ¹ĭ£
6. µĲĭäĒä ? æÇºĭæĕæĭæĲĀµµ¬É¹⁄₂, ½æĭĭ;¢¥Ð¥Ā¥Œ¥Œ¥

jαò,½°β¹Ôα«αέ,âÉý,þαĒÃμ⁰÷α·jϕÀμμ-É½,½αĒ°îÃ×α·αζÊ,»úîóαò
 ´þαà°Ç½έαî¹ÔαÇ»βαþαêαþα¹jεαâα·É-Í×αĒαέjϕÃμ⁰÷αî¥Ð¥Ã¥Õ¥jαî½ªαêα«αέÂ³α±
 αÆαªα³αÊαααþα¹jε

7. ¥ϕ¥É¥î¥¹αî,âαĒ²Ã»»μ¹æ + jÊαþαζαî,°»»μ¹æ - jĒα-ααÆjϕα½αî,âαĒ 10 ζÊζôα-ααÆαα
 αê¾¼î¹Çαîjϕ¥ϕ¥É¥î¥¹αĒ 10 ζÊζôαò²Ã»»α·αζ¹Ôαò¼¼ªα·αþα¹jεjÊαþαζαî¥ϕ¥É¥î¥¹α«αέ 10
 ζÊζôαò,°»»α·αζ¹Ôαò¼¼ªα·αþα¹jεjĒ+ μ¹æαî¾¼ÊĒ-²ÃÇ½αÇα¹jε
8. + αþαζαî - αÇ»îαþαê¥ϕ¥É¥î¥¹αîjϕ,½°β¹Ôα«αέαîÁêÂÐ¥ϕ¥É¥î¥¹αĒ,«αÊαμàαþα¹jεÂªαÁjϕ
 -5 αî .-5 αî°ÕîεαÀαĒίý²òαμàαþα¹jε
9. + αþαζαî - αÇ½ªαê¾¼î¹Çjϕ¥ϕ¥É¥î¥¹αĒ 1 αò²Ã»»α¹αêα«jϕαϕαêαααî 1 αò,°»»α·αþα¹jε
 α³αîμ-ÂξαĒÁ°αîμ-ÂξαĒαî·ëîÀαĒα·αÆjϕ¹Ô»ØÄê - αî,½°β¹ÔαîÁ°αî¹ÔαĒαĒαêαþα¹jε
 αμαέαĒ,âαĒαÄαααÆαααê + αĒ - μ¹æαĒαîîβÃñ,ú²îα-αϕαêαþα¹jεαÄαþαêjϕ --
 αî,½°β¹Ôαêαê 2 ¹ÔÁ°αĒαααî°ÕîεαĒαĒαêαþα¹jε
10. ed αî½έ´ü¥Ðj¼¥,¥ç¥óαĒαî,β´¹ÀαòĒÉýαÄαζαάjϕ¥ϕ¥É¥î¥¹αîÊ,»ú ^ αî - αĒÅù²ÁαÇα¹jε

 ed αî¥³¥þ¥ó¥Éαî 0 ,Äα« 1 ,Äα« 2 ,Äαî¥ϕ¥É¥î¥¹αòÉ-Í×αĒα·αþα¹jε¥ϕ¥É¥î¥¹αòÉ-Í×αĒα·αĒαα
 ¥³¥þ¥ó¥ÉαĒ¥ϕ¥É¥î¥¹αò»ØÄêα¹αêαĒ¥´¥έj¼αĒαβαĒαμàαþα¹jε1 ,Äαþαζαî2 ,Äαî¥ϕ

¥É¥ì¥¹àòĒ-í×àĒ¹àĕ¥³¥Ṗ¥ó¥ÉàĔ¥¢¥É¥ì¥¹à-»ØÄêàµààĒà±ààḐ;¢¥Ç¥Ŏ¥©¥ĕ¥Ēàí¥¢
¥É¥ì¥¹»ØÄêà-àµààṖà¹;£¥³¥Ṗ¥ó¥Éà-Ē-í×°Ē³⁄₄âàí¥¢¥É¥ì¥¹àò»ØÄêàµààĕàĒ;¢°Ç,âàí 1
,ÄàṖàĸàí 2 ,Ä;Ē²ĸà-»ØÄêàµààĸà«àĒàĕàĕ;Ēàí¥¢¥É¥ì¥¹à-í,úàĒàĒàĕàṖà¹;£

¹Ŏàò»ØÄêà¹àĕ¥¢¥É¥ì¥¹àíÄì³⁄₄ìàª,ṖàààĒ³¥ó¥Ṗ, àĒàĕàÃàÆŒĒèÀÚàéààÆàààṖà¹;£¥¢
¥É¥ì¥¹àí¥»¥Ṗ¥³¥ì¥ó; àÇŒĒèÀÚàéààĕà³àĒàâà¢àĕàṖà¹;£à³àí³⁄₄ì¹Ç;¢,½°Ṗ¹Ŏ. àí¥»¥Ṗ¥³¥ì¥óàíÁ°
àí¥¢¥É¥ì¥¹àĒÄṖÄêàµà;¢à¹⁄₂àíà¢
àĒàÇ¹⁄₄;àí¹Ŏà-²ò¹⁄₄âàµààṖà¹;£Á°Ēý,ṖàĒ,âĒý,ṖàíÃµ⁰÷¥³¥Ṗ¥ó¥É;Ē / , ?
;ĒàĒÄḐà¹àĕµ-ÄÀàò-èàâàĕàíàĒà³àíµ;¹¹⁄₂àò»Ēà;à³àĒà-àÇààṖà¹;£Çà°Ŏàí 2 ÁĒàí¥¢
¥É¥ì¥¹àĒààààÆ;¢2 ĒŎìÜàí¥¢¥É¥ì¥¹àĒÄḐ±Ṗà¹àĕ¹Ŏàí;¢°Ç¹⁄₂éàí¥¢
¥É¥ì¥¹àĒÄḐ±Ṗà¹àĕ¹Ŏàí,âàÇàĒà±ààḐàĒàĕàṖà»àó;£

°Ē²¹⁄₄àĒ¹⁄₄"à¹ ed ¥³¥Ṗ¥ó¥Éàí¥ĕ¥¹¥ĒàĒààààÆ;¢à«àÃà³ÃæàĒ¥Ç¥Ŏ¥©¥ĕ¥Ēàí¥¢
¥É¥ì¥¹àò¹⁄₄"à.àṖà.àĸ;£à«àÃà³àí¥¢¥É¥ì¥¹àí°ĒĒàÇàíàĒà-;¢¹⁄₄"à.àĸ¥¢
¥É¥ì¥¹à-¥Ç¥Ŏ¥©¥ĕ¥ĒàíÄíàÇà¢àĕà³àĒàò¹⁄₄"à.àṖà¹;£

Á°¹⁄₂Ŏà.àĸàĕà;àĒ;¢1 àÄàí¹ŎÃæàĒ 2 àÄ°Ē³⁄₄âàí¥³¥Ṗ¥ó¥Éàò»ØÄêà¹àĕà³àĒàí;¢
°ĒĒàĒŒŒØà,àéààÆàààṖà¹;£à.à«à.¦àÚàĒàóàĒàí¥³¥Ṗ¥ó¥ÉàĒàí,âàíàĒ Ṗ àä l àòĒŎà±
àéààṖà¹;£à³àìàéàí³⁄₄ì¹Ç;¢,½°Ṗ¹Ŏàí;¢,â¹⁄₂Ŏà¹àĕàĕà;àĒ;¢à¹⁄₂àìà³⁄₄àíĒ¹⁄₄"àµàà
ĸàĕ¥ĕ¥¹¥Ēàµàààĸàĕà.àṖà¹;£¥³¥Ṗ¥ó¥Éàí,âàíàĒàí n à-ĒŎà-à³àĒàâà¢àĕàṖà¹;£à³àìàí;¢

¥³¥¥¥ó¥Éâ½ÐÏâ¬¹ÔÈÖ¹æ»ØÄêâµàâÆâââëâ³âÈâð°Õì£â.â¥â¹;£â³âìâéâíÀÜÈð¼-
âí;£½ÇÉÔÆ±âÇ.ë¹Çâ.âÆââ¹½âââ¥â»âó;£

(.)a

îã¥Æ¥¥¹¥È;ä

¥Æ¥¥¹¥ÈâíÄÉ²Ã;£ÆþÏí¥â;¼¥ÉâÇÀßÄêâ.âÇ¥Æ¥¥¹¥ÈâðÆÉâß¼èâê;£¥£
¥É¥ì¥¹»ØÄêâµàâÇ¹Ôâí¼;âí¹ÔâËÄÉ²Ãâ.â¥â¹;£. âí°Ç½²ÆþÏí¹ÔâÈâÊâëâ«;£â¥âÇâí¥Æ¥-
¥¹¥ÈâíÆþÏíâ¬âµàâÊâ±âìâÐ»ØÄêâµàâÇ¹ÔâËâÊâêâ¥â¹;£¥£¥É¥ì¥¹ 0
âíâ³âí¥³¥¥¥ó¥ÉâÇí,úâÇâ£âê;£â³âí¾¼¹Ç¥Æ¥¥¹¥Èâí¥Ð¥Ã¥Õ¥;âíÀèÆ¬âËÄÖâ«âìâ¥â¹;£

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îã¥Æ¥¥¹¥È;ä

¹ÔâíÊÑ¹¹;£»ØÄêâµàâÇ¹Ôâð¥Ð¥Ã¥Õ¥;â«âé°í½üâ.â;£â½âí¹ÔâËÊÑâíâëÆþÏí¥Æ¥-
¥¹¥ÈâðÆþÏíâ.â¥â¹;£. âí°Ç,ââíÆþÏí¹Ôâ«;£â¥âÇâí¥Æ¥¥¹¥Èâ¬ÆþÏíâµàâÆâÊâ±
âìâÐ°í½üâ.âÇ¹ÔâíÁ°âí¹ÔâËâÊâêâ¥â¹;£

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¹Ôâí°í½ü;£¥£¥É¥ì¥¹âí»ØÄêâµàâÇ¹Ôâð¥Ð¥Ã¥Õ¥;â«âé°í½üâ.â¥â¹;£°í½üâµàâ

¿¹Ôα¬αâαÊαâαÊ°Ç,åαÊαÇαÃα¿αÊαé¡Ç¿.α.α[¬]°Ç,åαÊαÊαÃα¿¹Ôα¬,½°ß¹ÔαÊαÊαêαβα¹¡£

e filename

¥Õ¥¡¥α¥ëαîÊÔ½,¡£¥Ð¥Ã¥Õ¥¡αîÆâîÆÁ´Éôαð°î½üα.αÆα«αé»ØÄêαî¥Õ¥¡¥α
¥ëαðÆÉαß¹βαßαβα¹¡£. αð¥Ð¥Ã¥Õ¥¡αî°Ç½^{a1}ÔαÊα.¡Ç¥Ð¥Ã¥Õ¥¡αÊÆÉαß¹βαà¥Ð¥α
¥Ê¿ôαðÉ½¼°α.αβα¹¡£,åαÊÂ³α[¬] r αβα¿αî w ¥³¥βαó¥ÉαÊαèαÃαÆ¥Ç¥Õ¥©¥ë¥Èαî¥Õ¥¡¥
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E filename

α³αî¥³¥βαó¥ÉαîαÛαÜ e αÊÆ±α,αÇα¹α¬¡Ç w α¬¿α°αéααÊαα¾¼¹ÇαÊ¡Ç°Ç,åαî¥Ð¥Ã¥Õ¥
¡αðÊÑ¹¹α¹αë»βα¡Ç¥Õ¥¡¥α¥ëαîÊÑ¹¹αðÊÝÂ,α.α¿α«αÉα¡α«αî·Û¹ðαðÉ½¼°α.αβα»αó¡£

f filename

μ²±αμαα¿¥Õ¥¡¥α¥ëì¾αîÉ½¼°α.¡£,½°ßμ²±αμααÆαααë¥Õ¥¡¥α
¥ëì¾αðÉ½¼°α.αβα¹¡£filename α¬¿α°αéααÆααααÐ¡Ç,½°ßμ²±αμααÆαααë¥Õ¥¡¥α
¥ëì¾αîfilename αÊÊÑ¹¹αμααβα¹¡£

(1,\$)g/Àμμ¬É½,½/¥³¥βαó¥É¥ê¥¹¥È

¥°¥í¡¼¥Ð¥ë¥³¥βαó¥É g αî¡ÇÊ¿ô¹ÔαÊÂÐα.αÆ¥³¥βαó¥É¥ê¥¹¥Èαð¼¼Â¹Ôα.αβα¹¡£

αβ α°ιϕίζ α"αέαια
 ζÀμμ¬É½½αË°ìÃ×α¹αëα¹αÙαÆαί¹Ôαò¥βι¼¥¬α·αβ α¹ι£¼ιαËιϕ³Æ¹ÔαËÂÐα·αÆ¹ÔÆ¬α
 Ë . αòÀßÃêα·αÆίζ α"αέαιαζ ¥³¥β¥ó¥É¥ê¥¹¥Èαò¼⁄⁄¹Ôα·αβ α¹ι£1 αÃαί¥³¥β¥ó¥Éαϕαëαα
 αίÊ£ζ ôαί¥³¥β¥ó¥Éαί°Ç½έαί¥³¥β¥ó¥Éαίιϕ¥°¥ίι¼¥Ð¥ë¥³¥β¥ó¥ÉαÈÆ±
 α,¹ÔαË»ØÃêα·αβ α¹ι£Ê£ζ ô¹Ô¥ê¥¹¥Èαί°Ç½¹Ôαò½⁄⁄α¬α¹αÙαÆαί¹Ôαίιϕ \ αÇ½¹αί»α·αÊα±
 αìαÐαÊαêαβ α»αόι£
 ¥³¥β¥ó¥É α , ι , c αÈιϕα¹⁄²αìαË·ë¹çα¹αëÆρίίαίμöαμ αìαβ α¹ι£Æρίί¥âι¼⁄⁄Éαò½⁄⁄¹α¹αë .
 αίιϕα¹⁄²αìα¬¥³¥β¥ó¥É¥ê¥¹¥Èαί°Ç½¹ÔαËαϕαìαÐ¾⁄⁄ÊÎ¬²ÃÇ½⁄²α¹ι£¥³¥β¥ó¥É g αÈ v αίιϕ
 ¥³¥β¥ó¥É¥ê¥¹¥ÈαËαί»ØÃêαÇααβ α»αόι£

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¥Æ¥¥¹¥ÈαίÁβÆρι£»ØÃê¹ÔαίÁ°αί¹ÔαË¥Æ¥-
 ¥¹¥È¹ÔαòÁβÆρα·αβ α¹ι£½⁄²°ß¹Ôαί°Ç åαίÆρίί¹ÔαËαÊαêαβ α¹ι£¥Æ¥¥¹¥ÈαίÆρίία¬αÊα±
 αìαÐιϕ . αί»ØÃêαμ αìαζ¹ÔÁ°αί¹ÔαËαÊαêαβ α¹ι£α³αί¥³¥β¥ó¥Éαί¥Æ¥¥¹¥ÈαίÇÛÃÖαËαÃα
 ααÆαίαβ¥³¥β¥ó¥Éα αÈ°ÛαÊαêαβ α¹ι£

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¹Ôαίίϕ·ëι£»ØÃêαμ αìαζÊ£ζ ô¹Ôαò 1 ¹ÔαËίϕ·ëα·αβ α¹ι£Ãæ´Öαί²β¹Ôα¬Ã±

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ed ¥`¥Ç¥£¥¿αò¹/₂αî»αμα»αë¥³¥¥¥ó¥ÉαÇα¹j£α¿αÀα·j£¥Õ¥j¥α¥ëαî¹/₄«Æ°ÃαÈ¹/₂ñα-
¹¥α¥αìα¥α»αój£

Q

α³αî¥³¥¥¥ó¥Éαî q αÈÆ±α,αÇα¹j£α¿αÀα·j£°ÊÁ°αÈ¥Ð¥Ã¥Õ¥jαîÆâîÆαòÊÑ¹¹α·α¿αÈααÈ
w α-î¿α`αéαìαÊα«αÃα¿α«αÊα!α«αòj£·Ù¹ðα·α¥α»αój£

(\$)r filename

¥Õ¥j¥α¥ëα«αéαîÆÉαß¹/₄èαêj£¥£¥É¥ì¥¹»ØÄêαμαìα¿¹Ôαî,åαÈ¥Õ¥j¥α
¥ëì³/₄αîÆâîÆαòÆÉαß¹/₄èαÃαÆÆ¥αìα¥α¹j£¥Õ¥j¥α¥ëì³/₄α-î¿α`αéαìαÊα±αìαÐj£μ²±
αμαìαÆαααë¥Õ¥j¥α¥ëì³/₄α-α£αìαÐα¹/₂αìα-»Êαìαìα¥α¹jÊ¥³¥¥¥ó¥É e αÈ f αò»²³/₄ÊjÊj£
¥Õ¥j¥α¥ëì³/₄α-α¥αÀμ²±αμαìαÆαααÊαα³/₄ì¹¿j£ÆÉαß¹/₄èαéαìα¿¥Õ¥j¥α¥ëì³/₄α-μ²±
αμαìα¥α¹j£¥£¥É¥ì¥¹ 0 αî r αÊí,úαÇj£¥Ð¥Ã¥Õ¥jαîÀèÆ-αÈ¥Õ¥j¥α
¥ëαòÆÉαß¹/₄èαêα¥α¹j£ÆÉαß¹/₄èαêα-αìα¥α¹Ôα±αÐj£ÆÉαß¹/₄èαÃα
¿Ê,»ú¿ðα-Ê¹/₂¹/₄`αμαìα¥α¹j£,¹/₂°ß¹Ô . αîj£¥Õ¥j¥α¥ëα«αéÆÉαß¹¥α¥αìα
¿°Ç,åαî¹ÔαÈαÊαêα¥α¹j£

(.,.)s/Àµµ-É½,½/ÃÖ´¹Ê,»úíó/ αβγδijϕ

(.,.)s/Àµµ-É½,½/ÃÖ´¹Ê,»úíó/g

ÃÖ´¹¥³¥β¥ó¥Éj£Àµµ-É½,½αË°ìÃ×α¹αëÊ,»úíóαò»ØÄêαµαìαζ³Æ¹Ôα«αέ,«αÄα±jϕÃÖ´¹Ê,»úíóαËÃÖα´¹α´αβα¹j£°ìÃ×α-,«αÄα«αÃαζ³Æ¹ÔαËααααÆjϕ¥³¥β¥ó¥Éαí,åαË¥°¥íj¼¥Ð¥ëÃÖ´¹αò¼´α¹ g αò»ØÄêα¹αëαËjϕ°ìÃ×α¹αëα¹αÙαÆαíÊ,»úíóα-»ØÄêαµαìαζÊ,»úíóαËÃÖ´¹αµαìαβα¹j£g αí»ØÄêα-ìµαα¾¼ì¹çjϕ°ìÃ×α¹αë°Ç½έαíÊ,»úíóαÀα±α-ÃÖ´¹αµαìαβα¹j£»ØÄêαµαìαζ¥ϕ¥É¥í¥¹¹ÔÃæαËÃÖ´¹α¹αëαâαíα-Á´α-ìµαααËααíjϕ¥´¥έj¼αËαËαêαβα¹j£Àµµ-É½,½αËÃÖ´¹Ê,»úíóαËαò¶èÀÚαë/αíÃåαêαËjϕ¶ðÇòÊ,»úαË²β¹ÔÊ,»ú°Ê³°αíÇα°ÔαíÊ,»úα-»ΕíÑαÇααβα¹j£. αíjϕÃÖ´¹α-α²α³αËαíαìαζ°Ç½¹¹ÔαËαËαêαβα¹j£

ÃÖ´¹Ê,»úíóαË¥ϕ¥ó¥Ñ¥µ¥ó¥É & αò»ØÄêα¹αëαËjϕÀµµ-É½,½αË°ìÃ×α¹αëÊ,»úíóαËÃÖ´¹αµαìαβα¹j£α³αí´Ø,αËα²α±αë & αíÆÃ¼¼Ê,»úαí°Õì£αíjϕ \ αòÀè¹Ôαµα»αëα³αËαÇíβÀ©αµα»αëα³αËα-αÇααβα¹j£ n α-ζô»úαÇαϕαëÊ,»úíó \n αíjϕ\ (αË \) αËαËαíαµαβαìαë n ÈÖìÙαíÀµµ-É½,½αËÊΔ±βα¹αë¥Æ¥¥¹¥ËαËÃÖ´¹αµαìαβα¹j£Æβαì»ÒαËαËαÃαÆα«αÃα³αËÆβαìαέαìαζÊÔÊ-É½,½α-Ã,°βα¹αë¾¼ì¹çjϕ°,α«αέ»ìαβαë \ (αí½Ð,½α¹αë²όζôαòζôα´αëα³αËαÇ n αò·èαáαβα¹j£

2p¹Ôaòð³aîÊýË; aÇÃÖ´¹a¹aèð³aÈaÇ; ¢¹ÔaòÊ¬³äa¹aèð³aÈa¬aÇaað¹; ÆÃÖ
¹Ê, »úíóaîÃæaî²p¹Ôaî; ¢\ aÇÀè¹Ôa. aÆ¥¥¹¥±; ¼¥×a. aÊa±aìðaÊaêaða»aó; Æ

ÀÜÈø¼ p aò´ðaàðÈa; ¢, åÂ³aî 1 aÄa« 2 aÄaî¶èÀÚaêaî¾Êî¬a¹aèð³aÈa¬aÇa-
að¹; Æ¶èÀÚaêÊ, »úa¬Â³a«aÊaaÆÃ¼ì·Á¼° s aî; ¢¥¢¥É¥ì¥¹»ØÄêaµaì¹Ôaî°ÇÁ°
aîÂåÆp¥³¥ð¥ó¥Éaò. «aèÊÖa. að¹; Æs aî, åaÈaîr; Ê°, Â¹aÈa¢
aèÂåÆp¥³¥ð¥ó¥Éaîa¹a°ìÊÖ¶áaaaâaîa¹a«aîaèaÊ; ¢°, Â¹aÈa¢aèÀµµ¬É½, ½aîa¹a°ÇÁ°
aîaâaîaò»ÈîÑa. að¹; Ê; ¢p; ÊÁ°aîÂåÆp«aéÀÜÈø¼ p aîÀßÄêaòÊäÂa. að¹; Êaða, aî
g; ÊÀÜÈø¼ g aîÀßÄêaòÊäÂa. að¹; ÊaîÊ, »úaòÂ³a±aèð³aÈa¬aÇaað¹; Æ
a³aìaéaîÊ, »úaî½çÉÔÆ±aÇ. ë¹ç²ÃÇ½aÇa¹; Æ

(., .)ta

a³aî¥³¥ð¥ó¥Éaî; ¢¥³¥ð¥ó¥É m aÈÆ±a, Æ¬aaòa. að¹a¬; ¢¥¢¥É¥ì¥¹»ØÄêaµaì
ç¥³¥Ô; ¼aî¥¢¥É¥ì¥¹ a ; Ê0aÇaâîÊaa; Êaî, åaÈÃÖa«aìað¹; Æ. aî; ¢
¥³¥Ô; ¼aî°Ç, åaî¹ÔaÈaÊaêað¹; Æ

(., .)u

¼èaè¾Ãa. ; Æ¥³¥ð¥ó¥É u aî; ¢Ã¾Á°aî¥ð¥Ã¥Õ¥; aîÆaîÆÊÑ¹¹Á°
aÈa½aîÁà°aòìµ, úaÈa. að¹; Æ, ½°ß¹ÔaâÊüµ¢a. að¹; Æ¥ð¥Ã¥Õ¥
; aîÆaîÆaòÊÑ¹¹a¹aè¥³¥ð¥ó¥ÉaÈaî a, c, d, g, i, k a½a. aÆ v a¬a¢

αêαβσ₁∫£¼èαê¾Ãα.αîÛÂ^αα∫ζαάαË,g αÈ v αĩÃ±°ìαĩ¥Ð¥Ã¥Õ¥
∫ÆâĩÆÊÑ¹¹¥³¥β¥ó¥ÉαÈ,«αÊαμσ₁αβσ₁∫£ u ¼«ζ®αâ¼èαê¾Ãα»αβσ₁∫£
ed αĩ¥ά¥â¥êα-ÉÔÂα.αÆ¼èαê¾Ãα.α-¼Â¹ÔαÇααÊαα»β∫£ u αĩ,½°β¹Ôαĩ°ÇÁ°
αĩÂâÆβÁà°αĩ,ύ²ìαĩαβσ₀¼èαê¾Ãα.αβσ₁∫£α³αĩÃ©,Âαμσ₁αζ¼èαê¾Ãα.αĩ∫£ edα- -
¥ª¥×¥.¥Ç¥óαÈαÈαâαË,ÆαÓ½Ðαμσ₁αζ»β∫£¥`¥Ç¥£¥ζ¥¹¥`¥ê¥×¥ÈαÈαâ-íÑαμσ₁αβσ₁∫£

(1, \$)v/Àμμ-É½,½/¥³¥β¥ó¥É¥ê¥¹¥È
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´βσ₀À¹Ôσ₀α₀½Ûα-α¹αÛαÆαĩ¹ÔαË¥³¥β¥ó¥É¥ê¥¹¥Èσ₀¼Â¹Ôα.αβσ₁∫£

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(1, \$)W filename
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ŸÕŸ;ŸªŸëªòÆÉªß¹ªà»ª;¢ ed ¢ ASCII
Ÿ³;¼ŸÉªŸŸªëÊ.»úªÈ;¢°Ç.âªŸ²ªÔ°Ê.âªŸ¹ªÙªÆªŸÊ.»úªò¹¼ªªªªªªªªª;£

B. W. Kernighan, A Tutorial Introduction to the ED Text Editor
 B. W. Kernighan, Advanced editing on UNIX
 ex(1), sed(1)
 3.3J ¼¥¥¥½¼¥¥¥½¼¥È UNIX ¥³¥¥¥¥¥¥ ¥é¥¥¥Ö¥é¥é

İİÇÇÃÇİİ
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μ@½ÅæÊî;¼¥¬ ¥Õ¥;¥æ¥èð, íãÃæÆ¼°ã!³æÈðÈÉæ°æ¿á;¢°Ç, åãî¥Ð¥Ã¥Õ¥;ãîÊÑ¹¹æðæÇw
æ¬»Èã;ðæÊæ±æ;ð;¢q ¥³¥ð¥ó¥Éæðæ¿ã! e ¥³¥ð¥ó¥Éãî¥¬¥é;¼æÈ, «æÊæµæ;ðæð¹;ÆóÅÙìÜãî q
æä e ãî¼Å¹Ôæµæ;ðæð¹;Æ

îĤÆüËÜ, ìµ;Ç½îĬ
¥Õ¥;¥æ¥è¼°æèæó¥Õ¥;¥æ¥èÃæãî¥Æ¥¥¹¥ÈæË;¢EUCÊ, »úæ¬;¢»ÉĬæÇæðæð¹;Æ

Àµµ¬É½, ½ []
Àµµ¬É½, ½ [] æðĬÑæææÆ;¢ÊĬ°Ĭ»ØÄêæðææææÊã!¼ì¹Ç;¢°ÔæÊæè¥³;¼¥É¥»¥Ã¥ÈæÈæðæ
¿æ¬æèÊĬ°Ĭæð»ØÄêæ¹æèæ³æÈã!æÇæðæðæ»æó;Æ
°ÔæÊæè¥³;¼¥É¥»¥Ã¥ÈæÈæðæ¿æ¬æèÊĬ°Ĭæð»ØÄêæææ
¿¼ì¹Ç;¢ÊĬ°Ĭæð»ØÄêæ¹æè°Ç½éæÈ°Ç, åãîÊ, »úæÈãîæß°ĬÃææææðæð¹;Æ
Ĭãæ¬æð;¢[æ¬;] ãî;¢[æ°;] æÈÆ±°Ĭ»èæµæ;ð;¢`a' æðæ¿ã! `°;` æÈ°ĬÃææææðæð¹;Æ [^æ¬;] ãî;¢[^æ°;]
æÈÆ±°Ĭ»èæµæ;ð;¢`a' , `°;` °É³°ãîæ¹æÙæÆãîÊ, »úæÈ°ĬÃææææðæð¹;Æ

Ĭ ¥³¥ð¥ó¥ÉæÈæèæèÀðæêÊÖæ.½èĬý
72-73¥«¥é¥à¾åæĒÁ´³ÑÊ, »úæ¬ÇÛÄÖæµæ;ðæè¾¼ì¹Ç;¢72¥«¥é¥à¾åæĒãî;¢\
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