





-1; A-OY21 A; Cxjx0@a^0x£«ØÁµj A«h¹A·Æx£¶È; C·Rxlx£ k-1; A kYÁx£æÖj A«h-GYÐ  
x£-1; C¹A·Æx£¶È; A¹AYÁ-q¹A; A«h-óY234Á·o; C

j; @; @¼0°f@È; j A«h«Á°°Ä¼xß·pYæ°Á¹A x\$YÁx£:æ; C°f@Èx\$YÁµL©Ò©ó-1; A«hY21 A; A¹A «h-óY234Á·o; C

j; @; @³üxS; A; A«h´c¹A°C k-; çýx\$YÁµL©Ò©ó-1; FµL©Ò©ó-1«hY21 A; A¹A «h-óY234Á·o; C

j; @; @¶Q°s; x\$»ù; j A-«·ä²; AY0xQ-ç·ä³⁄⁴; CµM«h°ÓÜ^xÖ; AYÁx£-ä³ß¶[0¼]; A xj; Úx£  
-°-1; j; C°ÓÜ^xÖ; A«h xWx£¶[Oµ-; FYÁx£-ä³ß¶[0¼]; A«h¹A x£°C; Fxj; Úx£-1; j; A«h°ê  
·Æx£¹/2; AYÐµL¹LÁ; CxWx£¶[Oµ-; AYÁx£°C¹A; A«h-óY234Á·o; C

j; @; @-«¹D; Ó³s·ä; o; j A«h¹/2È«æx\$YÁx£°«; j A«Ü-èx\$YÁx£³^; A«ä kx\$YÁx£´ä; A¶[O; êx\$  
YÁx£§ @; AY©½Ü´cßx\$YÁµLÁÜxj; Cx-YÁ¹x£¶[©ó¹Òx°; A«h-óY234Á·o; C

j; @; @·YÁµL±0¾Ö±p; j A«h; Y·M¶[Á¹A x\$YÁµL©Ò©ó-1; ÓY21 A; C·MxßÄ¼±ýx\$YÁ³ü·N; j A«h  
¹AYÁY²ÄR; C¹AÄR; j A; Y·M¶[Á¹A x\$YÁ±ý¹A; j A«h-óY234Á·o; C

j; @; @§; YX¾¼x£x\$·YÖ; j AYHY@·Yx§; AxS°a·ä; N³Ü; j AY0;³·i; A©x-1; @; j Ax£Y;YH¹@  
§D; C¹Óxj©xY¹/4Y¹Y²±0xj; j A«h¾¼x£x£´ä·ÆxH; C¾¼x£x£´ä·ÆxH; j A«hY21 A; A¹A «h-óY²¾¼Á·o; C

j; @; @°èx\$ xj; Ú½N xj; Ö; j A³Ö»D; ç¹/4z´ä©-x\$·Æ; j A-ÒµL±0-°; FµL±0©~´ä©ó; È; ç; j A«h¹A  
YÁµL©Ò»DÄÜ·£xè; C¹AYÁµL©Ò»DÄÜ·£xè; j A«h³/4¹AµL±0Ä÷·ä-G·Æ; j A¹Ó·M¹Ax£³/4; Ax£  
ln¾Ç°Y; C·M¹Ax£³/4; Ax£ln¾Ç°Y; j A«h°È-e¹A; C³/4¹Ax£Ä÷·ä-G·Æ; j A«h-óY234Á·o; C

j; @; @Y0-xY«µL³xkxj; A; ÓOR·ä°Ó; FY0xH; Úµ¹YÒ§L; j A·Iµø-x; ç³; CxS·I-xY«µL±0·p  
çéÁ³¹; j A«h«Ä; NµL©Ò©óYñ; Cµs; çéÁ³¹x£·p¹/2; j C»´kx\$YÁx£´ä-xY«; j AµsÁ³¹µL©Ò  
°ä; C°èÁ³¹x£·p¹A»´kx\$YÁx£´ä-xY«; j A«h¹AYÁx£²; j A°èµx£³Ö; j A«h-óY234Á·o; C

j; @; @È; çx\$¹x@§¹; j A«h·±¹x£¹ç; j AYN¹x£¹±§ó·ä¹; A¹L¹Ó¼0¹x£-à¹·äÁ; C¹L  
Áx£°¹; j A«h©xµL·; xH; C·±¹x£¹ç; j AYN¹x£¹§ó; j A«h©xÄYxÖ; ÓYÁx£³Ö; C©xµL·; «hYÁ  
x£±¹; j AYÁx£±¹; j A«h·~x£±N; C©xÄYxÖ«h¹/4x£·D; j AYÁx£³Ö«h¹A; h xé; C¹A; h xé; j A¹/4x£  
·D; j A·~x£±N; j A«h-óY234Á·o; C

j; @; @-«ÄöY«x\$¹/2á; j A«h¹A´c°Ó; j A°Ó!³0Ä´kx\$ xß; C¹A´c°Ó; j A°Ó°Ä´k; j A«h-óY234Á·o; C

j; @; @YH°Óx\$ x¶¼Æ·I°Ó; j AY0x\$¼rÁÖ@{-«¹Y²·f; W; j A«h¹A¶[h; Ó°ÓÖ; C¹A¶[h«h·] YÐx£  
-1; A°Ó³Ö«hYh·Ö; @°èx\$Á§µL³q©ó; È; ç; j A«h¹AYÁx£ÄÈ; j A¹æx£¹ç; C¹AYÁx£ÄÈ; j A¹æx£  
¹ç; j A«h x¶¼§@Y²·e; j A¹Ó·p§@x£-1; j A«h¹A·ÆY23Ö; C¹A·ÆY23Ö; j A«h-óY234Á·o; C

j; @; @Y0°èÁ³µL±0·úàð; j AµL±0x£±e; F·@xûÁÖ-«³; j AY²·f; W; CµM«h©¹³t±t·e; j A«h·~  
x£±N¹A; C·~x£±N¹A; j A«h-óY234Á·o; C

j; @; @µL±0-°; 0xH¹/2D©ó; O!ÓùY-¹x\$; j A«h«ÁYÁµLYD; C«ÁYÁµLYD; j A«h-°«Áx£«j; C-°«Á  
x£«j; j A«h«ÁYÁµL¾⁄⁴; C«ÁYÁµL¾⁄⁴; j A«h¹AYÁx£±N; C¹AYÁx£±N; j A«h-óY234Á·o; C

¹A¾⁄⁴Ö²ÄxT

j; @; @xZxHYDx\$©ÒYHÄUYÁ¹; j A©xÄxj; F°èx\$©ÒYH; ç³¹; j A¹A¾⁄⁴Öxj; CxµYÁ·D©xÄ; j A-Ò  
x£YH¹A¾⁄⁴Ö; j A¹ÓYHY©·Yµè¹D; j A¹; ç³ÖYÁ; C³ÖYÁ¹; j A·ä°èY²µLxO; CµLxO¹; j A·ä°èY² «d; C

j; @; @µ¹/2-°°è¹; j A·ä±DYÁxj; j A-Ò±q³ü·Á¹Ó±0©xÄ; j C-O-Gx£YH¹A¾⁄⁴Ö; j A«hµL©xÄ; j C°è  
Yh·Y«hYÁ¾⁄⁴; j AYÁ¾⁄⁴è«h x£²; j CYÁ·£xW§Qx\$±q³ü·ÁYXxj; j A«h§@³ü; j A§@³ü«hYÁx£¹/2; C

¥Áæ¹/²²<h|hæO;A|hæO<h°ê³/4Ê;Cæµ¹Òæ²æ¥Á;A-Òæê;G;u¹A³/4Ô¥iÁx;A!Ó©xÀi¥i±o  
æ];C;v-0-G»³Ç-Ò¥iÁÛ~;A°Ê³/4Ç,Ö@Ñ;AAH±q¥~Áv;AæW¥i¥H±oÁã;AæU¥i¥H±o©x  
Ài;F-nÄû`Æ°Ó,ë;A-°§PÄÄ;G-Ò¥HÁx¹A³/4Ô;C`ã³Æ;A°êæ§!Mæ];C¥Á¥H!¹-°±Ð¹;A`ä °ê¥²<d;C

;@;@µ¹/²-°°ê¹;A-ÜéOÁö;Aææ¹/²©ó¹A;F°êæ¥Á²³;Aææ²]©ó·¥;A<h¥Á³/4èæ@;C¥Á³/4è  
æ@;A<h©xÀiæ¥i¥©!Ó`úæ];Cæ¥i¥©`ú;A<h<Áæ¥i;C<Áæ¥i<h¥Dææ`b;Cæµ¹Òæ²æ  
¥Áæ¹³B©xÀi¹;A`£`Á§Êæ§¥i¥H¥©`¥ÁG»;;ú©xÀiæ];A-G©xÀiæ¥i±o!Ó±æ];C-0-G  
¶i<h!±¥D;A°h<h¼{©Ò¥H!ê`ä`p;AµM<hæU¹/²æÁv`o;CæÒ!±¥D¼{`p;A<D°ê§Qæ];A!Ó-°  
æ§¹;A¥H`äÄ;Sæ];CæU¹/²æÁv;A<D©³/4;Úæ];A!Ó-°æ§¹;A¥H¥¹/²³æ];CµM<hæU©xæ§³/4-  
³/4E¹;A-Òæê;G;u|h³f<hæW©x¥i±o!Ó±ýæ];C;væê;G;u§Úæ¥H³f`ÆæW!Ó`D³/4E¹;A<h  
lp¥H`W»ç¹<°;A¥²ææ³/4-°;C-Y¥H±;`ÆæW!Ó`D³/4E¹;A<hlpæP¹/²Ñµ`Ä;Ó`D-¼Pæ  
æ];A-Uææ³/4-°;Cæ§G¹!æ¥i¥H±o³/4E;A<h§Ú²±oµLæU°Ê²³`ú³¥H`ÆæW;A!Ó¥H`D³/4E  
¥G;I;v!Ê©mæê;G;u§Ú`e¹A;A¥ý¹èæ¹/²-Ü;A!-³/4¥H`Æ;E;A-°æW§Ñ¥i!Ó³/4Ô;A¥H`L¥D;w  
°èæ];F-Ümê;A¥D`ö;A@æ³h;AµM<hæælp`Á©x;I;v;E±-¥æ`áiX;A<h§ó¼{`°;C»³Ç°E  
³/4Ç,Ö@Ñ;AAH±q¥~Áv;F-nÄû`Æ°Ó,ë;A-°§PÄÄ;G-Ò¥HÁx¹A³/4Ô;C¥Á¥H!¹-°±Ð;A<hµ²-  
±oµLæO;A!Ó§L²±oµLæzæ];I

;@;@µ¹/²-°°ê¹;A©x¹k©ú;A-Gææ¥ö³/4¼{;FæW§@³ü;A-G¥Áææ¹/²²];A<h°èæO;C°èæO  
·i¹³/4Ê;A°è!n`¥¹/²!¹<d;C-Gæê;G¹A³/4Ôæ§¥ÁæææH;A!Ó³,Ö@ÑÁG¹/4z¹æ@æH²];AæææH  
¹!-Ò<á©ó¹A³/4Ô;C¹A³/4Ôæ§¥Á!ÊæH;A!Ó³§PÄÄ¹æ@æH²];A!ÊæH¹!-Ò<á©ó¹A³/4Ô;C  
°è<Ý¹A³/4Ô;Ó!w;A¥D<Ý¹A³/4Ô;L;CæÒ¥Áæææ¹A³/4Ôæ];AæW!n`¥!Ó©x¥ç±æ];C±`©x<h  
°è¹v;A³ü`È<h°ê¹;A°è`T!Ó¹v;Aæýæ§¹Dæ];C-Gæê;Gæý¹D§@;A¥~`-§@³ü!Óæw`o;C

;@;@æµæW¹/²x§=-`à³/4¼z;Ó¥òæ§;A<h³/4¼zæææH§Æ¥D;n`c`!©x`r`æ;A¥H³/4A¥Dææ;C-O¥H  
©xµL±;A°è¶!Óææ³ü;AÁG»;æææH!ÓµL¹kæ];C!p!;A<h¥Á°È²±oµL;h;A!Ó!æ²±o  
µL`i;H,Ö;B@Ñ;BÁ§;B¼Ô;Bµ¹/²;B-x;Bæ;B-G;BÁG;B¼z;A°è!³æQ¹;AæWµL`T!u³/4Ô;C  
°è¥HæQ¹¹v;A¼Ä!Ü¥²<d;Aææ!Ü¥²³h;C°è¥h!æQ¹;A¼Äææ±Ü;FÁö!Ü;A¥²<°;Fç³  
§L!Ó¥i;A¥²`ú;F<ö§Lææ¥i;A¥²`I;C°è!næO¹;Aæê;u¥HÁæøð;v;A¥HÁæøð³!æ²;³;F  
!nÁG¹;Aæê;u¥H©ö§ð;v;A¥H©ö§ð³!æ²;M;C-G,æH©ú§g¹;A<D`à°E`ä, U¹ææ];A³/4  
U¹ææ-ææ];C-G`ä¹v°èæ];A!¹-n!Óæw`o;C

;@;@æµ-°°ê¹!hµL-n;C`Á§Êæ§`¥¹væ];A`É-É²°È-Ü©öæ];C-O¥H`ä§gÖ\_©ó;A`ä  
©x¶!Á©ó·¥;A`ä¥Á`k!Óææ¹A;C-G`ä¹Òæ²æ¥Á;A-Òææ!Ó!nÁG¹/4Ö³/4Ç;A`Æ°Ó,ë;A-°§P  
ÄÄ;AÁx¹A³/4Ô;A!p!<hæ`èææ>`°;C°è!³`Æ;A<h³/4Ç¥Á`c¹k;A°Ó¥Áµ¹/²ææ;A§PÄÄææ¥Á  
ææ¥i;A-G`ä°è©ö`æ];CæÒ¹A¹!è;A!Ó¹C-¹³²³;A-G`ä°è³h;M;CæµæÒ;Áé³Hòà-K  
¥i-¹;Aæ@¥X!Ó¥Á¼Æ!~¥F-¹;Cæµæ@æH`Ñ;A!Ó!ÊæH-ææ;A!`ä-°;Áéfx-ðá¥çæj  
`°;CÁö³,Ö@Ñ;A¶!mæ@§ð;A@ææ@-û;AçWµL`q©ó¹væ];A<D©Ò¥Hææææææ³Næ];C-G¥ýæý  
ææææ©ó¹A³/4Ô;C-Gæê;G!ÊæH¹A;Aæ@æH©~¹;Aæý;FæQæH¹A;Aæ@æH©~¹;A±j;F¥b¹A¥b  
©~¹;A!M;C-G¹v°è¹±y¥Áææ¹Aæ];C°èæ¹A;A<h>P¹/²Ñ`J°§Ávææ`à!Ü<ùæ];A<h²³æO  
ææ`ææ];C-G¹/²Ñ`J¼,`ä@z;A-¼`ä¹;Aæg!æ<I<d!Óææ@¶];A<hµLæææw;C,æH³/4v°èæ§  
-n;A-G¥O¥ÁÁkææ©ó¹A;CÁkææ©ó¹A;A<h¥Á³/4è!Ó¥i¥æ];C`É-É;A<hææ©ö`!æ];F<H;A  
¥i¥H!u³/4Ôæ];C³ü;A<hæO¶!b!Ó-«©-¹F³ü;A<h¥i¥H¹/²à>@¶!æ];F³ü;A<h¥i¥H¥~¥!æ];C

;@;@æÒ¥Áææ§;EæW!°`æ];A¥H`ä¥¹¹/4Ç±q`Æ©ó¹A;CæÒ¥Áææææ¥i¥iæ];A`£`¥¹/²!`ææH`Æ  
§ææ¥i¥H`L`æ];A°Ó,æææ¥i¥H`I@æ];A§PÄÄææ§`~¥H!Mæææ];C¥Á`£¹æT¹ææ<K¥B  
§Qæ];A<h¥Áx¹A;FÁx¹A<h¥Á>`~ä@~;A>`~ä@~<h¥²ææ-°æW!u³/4Ôæ];CæZ¹v°è¹;A±w  
¥Áææ²!Óææ¥i`æ];A-O¥H,ææH§@³ü;Aáææææ];C°è§@³üæ@.³¹;AæQ.³³/4Ê;F§@³üæQ  
.³¹;A!Ê.³³/4Ê;F§@³ü!Ê.³¹;Aæd.³³/4Ê;Aæd.³³/4Ê¹æý;C§g-x¹/²à>@¥H>²³ü±Ð;A-O¥H  
`ä±Ð!³©Ò±;A!Ó-F!³¹æ];Cæý¹!±o¹v¥Áææ§!Ü-n;A-Gææ<Ý¹/²à¹/²ç;Ó¥Á;EæW;Aææ<Ý¹À  
S!Ó¥Á±q`Æ;Aææ<Ý¹D>@!Ó¥Á-P!°;C°è!M¥D¼-;A>¹!`¥i;AµL`q©ó¹w!Mæ];CæÒ°è  
!M¥D¼-æ];A³/4Ê¹/4Äæj°èæ];CæH§æææ`à¹A³/4Ê¹/4Ä;A`æj°èæ];A<h-x!u³Æ;A<K!æ!;A  
áP¥ÁæO¥H<Ý¹~`Æ;AµM<á±w¥i¥H¥h;A!Óæý¥i-Pæ];C-O¥H©ú§g-x-F§@³ü;A¥hµL¥¹;A



§§xkx§¼Æ; A!N@z§¼Æ; A@xh§¼Æ; AYH`Y»j`ú-<sup>1a</sup>!x§¼Æ; A§QYÁx§¼Æ; A°xú`j\_@x§¼Æ; C±y³¼Ê°ê; Aox³¼°êxQxT¼Æ; A!aÁö§Q; AYÁÁö<sup>23</sup>; A°ê-U@z!Ü«d; C°êµL«èYÁx³¼Ê°ê; C!³§L!ÓY; A«hAZA²ZYô; AY²³Ó; F«ö§L!Ó; A; Am`Äiµ`Yô; A«h°êT; C§L°\_!Ó³Ó¼Ä; A«ö§L!Ó°êT!; Axy; C

»jYÁ²Äx-

j\_@; @ÁG¼z; A!Áx§ÄÜx; FÁ§¼Ö; A²j§Hx§¼x; F.Ox; A¹Lx§YÁx; FYôÁA; A«Áx§¼«x; C!Á³ÄÜ«h!æ; A²j§H!³¼x«hY!; A¹L!³YÁ«hY!; A«Á!³!««hæx; CxK³!³\_s; AYÁ³Ó`ä-F; F°êµLxK!; A-F³Ó`äYÁ; CYÁ³Ó`ä-F; A°ê@z; F-F³Ó`äYÁ; A§L³¼Ê; C-G°ê!³xK!; AxWµLYH`T!u³¼Ö; AY²«d!Üx; F°êµLxK!; AxW!³YH`T!u³¼Ö; AY²; ³!Üxy; C

j\_@; @Y!µ½; A«hYÁ; E`ä; E; FYô«Á; A«hYÁ; E`ä`j; C!X!Ó`\_x§!; Aµ½x; F§O!Ó³Wx§!; A«Áx; C³!µ½«h!L°!; AYô«Á«h\_o\_Y; C!L°!«hYÁ³Ók; A\_o\_Y«h³k³ÓYÁ; CYÁ³Ók; A°ê!; F³k³ÓYÁ; A§L³¼Ê; C-Gæ; GYH`Y}YÁ³v; AY²!Ü«d; FYH«ÁYÁ³v; AY²³v!Ü³¼Ê; C

j\_@; @°èYHÄø§ð; A°\_x@`úxQ; F°èYH@ö§ð; A°\_xQx!E; C°ê!nxO; Axæ; G; uYHÄø§ð; v; F°ê!n`Y; Axæ; G; uYH@ö§ð; v; CYÁ³Oö-°Y; AÄø-°Y!; C°èk§@YÁx§OÄø; A§LYÁYÁx§Oöø; A!ÓYHxO§ð!; A°\_x@±oxQ; C°èk§@YÁx§Oöø; A§LYÁYÁx§Oöø; A!ÓYH`Y§ð`!; AYXxQx!E; C

j\_@; @»@-«; AÄ!L; F!²à»`j; A!D«Á; CÄ!L; AxW.RYÁ; F!D«Á; AYÁ!°xW; C-G!³è!æ»@«hYÁ§Q; AY!²à«hW-«; C³k\_Ö«h!DÁc; A³kÁ²«h!D-Ü; CYÁxæ³v«h!; A!Á!Ó³vnx§!; A!C-G³vnx§Oö`ä³v; A«h³v; F³vnx§Oö`ä!; A«h!; CYÁxæ±; x!v; A`ä`Æx!; A!C-G!æ!D; A-«`ä-«!; A»`ä`!F»`ä!xY!; A«h-«!µL±q!`o; C!³x!u³vnx§Oö`ä³v; x!v; C!æ!D; A-«`ä-«!; A»`ä`!F»`ä!xY!; A«h-«!µL±q!`o; C!³x!u³vnx§Oö`ä!; v!; C-G-«»`j; A«h!DYH`Æ!; A°è³¼Ê; F-«-«!Ó»`j; A«h!D!Ü!Ó`ÆY!; A°è«d; C

j\_@; @YÁ«i; A«h!²àx§YH`ä@O±y; FYÁ@Ä; A«h!Dx§YH`ä@O`c; C-G@ÄYÁ`!x§YH!D; A«h«i; F«iYÁ`!x§YH!²à; A«h!°; C@ÄYÁ«i; A«iYÁ!°; A°êµL!¼Ä!Y²xy; CYÁ³h«h@z; A°êT«h²j; F²j«h!³/²³¼; A!³!²³¼«h@z; C-G³h!Γqx§YH!D; A«h!j; F!T!¹!x§YH!²à; A«h³h; C³v°èx§Á; A!QYQ³h!T; A!T³h; C³h!T; A!T³h; A°è³¼Ê; CxT@xµL!²³¼; A°è³¼Ê; F!ÓµL!²³¼x!; AY²xy; C

j\_@; @!DY!xO; AxOY!³¼Ê; A³¼ÊY!«Á; A«ÁY!¼w; A¼wY!@ó!D; C-G!D!h«h!²à-«; A!²àxÖ«h!D-«; CYÁx§!³±y!³`c!; A±y!³x»²j; A`c!³Y!Äø; C±qx»²j; A°ê@z; F!æY!Äø; A§L³¼Ê; C-Gxy!; D@óx; A!Ó!²àYXx@; C!D@óx; A«h»²j!x; F!²àYXx@; A«hY!Äø!æ; C»²j!x; A«h°êµL«Á; FY!Äø!æ; A«h§LµL¼Ä; CYÁx§Oö±y; U; A!Ó§Qx§OYXx@; CYÁ«Dx@«hµLYH-P±y; A-G§@x@; C§@x@«hOáP; AxOáP«h³¼Ê; F³¼Ê!ÓY!; A-«³¼Ê; C-G`àY!xO; A`à±PxO; Axæ; G; u§ð¼ÄÄx§°ê; v; AY²Á; C!e`p!DYH!²à`ä§Ó; A±Ox@`üYH-P`ä±y; A`YÁY²Y`ä@O`c; AµM«á-P`ä@O±y; A-GxO!h; CxO!h!ÓxY!«h§Ó!²a; A§Ó!²a«h!³`p; A!³`p«h!³@z; C-G`àY!xO; Axæ`à±PxO; Axæ; G; u!Ü§ðx§°ê; v; AY²«d; C-Gæxy!T°èxæ»WxO; A@aæ; nµ; C°èxæ»WxO; AxU!Y!x; F@aæ; nµ; AxWÁÄx; C

j\_@; @°è³v; GÄ\_@axy; AÄ\_@x³¼Ê; AÄ\_§g@z; C-«»`!DYh; A±`@x«h³v; C-Ü!D-n«O; A!²àxY!-j; C!³«ÁY²§ix§; A«hYÁÄ\_@óx; CxWY!O!YÁ³¼@OYHÄ³; A³¼!`@ó@a!Ó!æ@ó@x; A«h`ÆÄ\_@ó@a; C-Gxy!; D!²àÄ\_@óYÁx§; A³¼Y!Ä\_@ó@a; C³v@ó«h!P; A³v!h«²§; C!P«h!æ; A²§«h!x; C!æ«h!v; Ax!«h!; C³v«h@aÄ\_!A!Ä\_«h§gÄ\_!C³v°è!QxUÄ\_!A-GYHxQ`½Ä\_!@z; AYHx-`½Ä\_!³¼Ê; A@aÄ\_«h!³³¼!; A-Gææ³v!xy; C@xÄ\_«hæ!`-j; A-Gææ@j³v!³¼Ê; C§gÄ\_«h!; A-Gææ±³v!«d; C-G!³!Dx§°ê; A³væ!Y§g; AYÁxæ±q@x; C

°ä!a²Äx»

j\_@; @xY@YDx§±w; AY!§L!xæ!qxO; A³v`óµÜ!xæ«x!a; C-G!³!a-U!ÓYÁ²³!; AYÁ³Ó`ä!a; F!a!s!ÓYÁxO!; A!a³Ó`äYÁ; CYÁ³Ó`ä!a!; A°è!; F!a³Ó`äYÁ!; A`Æ±t; C!}



°a\$H¼ÖÄ;A¥Áa\$çÖ°Èa;C-G°ä°è;Dæ¥i'c;ÓÀi,Sæ°-°Èa;A!°æ°èa\$¥üa;C'D  
 æH\_°;A«hæpæH¹@²;Óæ-W;D;A«héu-Æ©ó¥ÁæW;Céu-Æ©ó¥ÁæW¥H\$Q'D;AÄã°a\$á  
 ææa;A«h\$gæ'Æ¶Ö¥H;W;CæpæHæÁx'ä,T;A-G;D-Ð;F\$gæææ³]°a¥O;A«h»@!æ;C  
 !D-Ð;Ó@!æ;A°è;h«Á;F°è;h«Á«hT¹ææ'ài'u"ä°;A!Ó³h¹ææ'ä°Æ"ä~;A¥Ð¹  
 !Ó°è³h;C¥Ð¹«h¥Á¶æ¥i;A°è³h«hæW¹¼½à;C-G,æHæ\$-°ævæ;A!DæHµL°è;A¼@æH  
 µL©xæ;C'DæH¹³;A«h\$gæææU"ä;F¼@æH;çAA-¹x;A«hæpæH¾¼-°æ\$Q;C\$gæææU"ä  
 ñ;A«h²Ü¥;FæpæH¾¼-°æ\$Q;A«h¥i«Á;C-G;D¼@æ¹;A©Ö¥Hæ«Á;F!Ó©xÄ¹;A©Ö¥H  
 ÄU¥æ;Cæµ°è¥BÄ;Ó¥Á²Üæ\$;A³;D!Ó¥Á¼Öæ\$;A!¹»¹k³Næ\$±wæ;C-G\$gæææ¾¼ævæ@  
 -F¥H¥B³N;A¥B©x¶¶QÄ!¥H°Üæ\$;A½x³ÖÄ!¥¥H¥H°æ\$;A«h-OæWæUæ\$°Üæ-;CæWæUæ\$°Ü  
 æ-;A«h!Ü±°è°æO;A!Ó¥Ð±±M"ä-;C

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;@;@æÑ!a³;A!Ó¥Á¥iæ\$;C-í!æ\$@Éæ;A¥Á³³'ä¥À!Óææ³³'äæ-;A"ä¹D;Ë;Ë!Ó-R  
 °p;C;Ë;Ë«h\$O;A·R°p«hÄ;A¥Á²³!Ó¥H\$OÀ!-°è;A«h¥Á¶æ;C-í!@Éæ;A¥Á°è³Ó;Ó  
 æO©°;C°è³Ó«h³;AæO©°«h³;A³!ÓµL¥;A«h²ö±°"ä@Éæ;C-G½á¹¥Bææ;A³µL  
 °p;A!Ó¥Á»æ;C-í!@Éæ;A;Ë;Ë¼o;AæW½áææB°o;CæZæ¹¥H·R\$Q-°è;A!Ó½á¹¥H  
 -Ü¥X-°D;C¥Á²³!ÓµL¹;Aæ[!Ó-Ü¥X-°D;A«h³¶æ;C-G,æH©Óæ\$;A\$@-°æg!æ³f°]  
 °kææææÀ;CæÀ©w!ÓµL¹;Aææ¥i;A-G¥B,T;C,T¥B!Ó²ææ\$¥q;Aææ¥i;A-G¥B©x;C©x³]  
 !Ó²ææææ@;Aææ¥i;A-G¥B\$g;C-J¥B\$g;A«hæW½á¼o;A!Ó¶¶Q¶æB°o;CµM«hæW¥@;Ë;Ë!Ó  
 ·R°p;Aæææ@æW½á!Ó»æ;AæU¥@¶¶Q¶Q!Ó!L©x;CæW½á¹;A¥HÄ¹-Ü¥Xæ;F!Ó¥B\$g¹;A  
 °½áµL¥æ;C;Ë;Ë¹;A¥H°p-°Dæ;A!Óæææ;¹!T°pµLææ;C!æT¹;A«D°Æ-Üææ  
 æ;A¥Á¹D!ú!Ó©-«©æ;A¥@°ÆÄÜ!Ó!æ¹D²ææ;C-Gæè;G;uæý¹D!³Ä;C;v

;@;@æOæý¹Dæ@°Ý;A!Ó!Ü¹Dæ@°Ý;F©Ò¹D«h²\$;A!Ó©ÒÄ«hæ@æ;C-Gæè;G;uæ¥·M;A«h  
 ³¼¥¥Hæý;F¥@³¼;A«hæO¥¥Hæý;C;væ·M;A«hæO!³³¼!Ó³¼ææ°-;F¥@³¼;A«h¥©!³³¼!  
 !Óæææ°-;C¥ÁææçÈ;Aæææ³¼«h¾ç;AæO°è!Ó·A;C-G°«¹A±Ð°Ñ!ÓæææÑæU;Aæv"ä³¼æ;F  
 °æZ-P±j!Ó©°½Ñ«J;A·A"äæææ;CæÒ¥Á·M;AææÄh³¼!Ó°Ý;F¥@³¼;AµL¾¼æO!Ó·A;C-G  
 ¥H·RæææÑæU¹;A!;D;FæO©°½Ñ«J¹;A°h¹w;C,æHæææk¥j;Aææ-xæµ;Cæk¥j«h«á©ó  
 ®É;A-xæµ«h¶¶æ©ö¶¶Q;C©Pææ°k°Ó;A@Læææk,;AæT¥N²\$¶¶Q;A!Ó-Ò¥¥Hæý;C-G;ææý¹³  
 !D;A!Ó«ùæ\$²\$z;CæZæý°f'ú!Ó¶¶Q¶¶Q;AæææÑæU!ÓæWÁý;F"ä"úææ¥HæO;A«ùææ¥H,q;C  
 æµæ@¾É°è°Æ-Y!;A@z°è°èæO;u;FæWæææ,·@Læ\$®É;A!ÓæUææ-x°æZæ\$¹D;C°æZæ\$  
 !D¶¶Q;A-G,U-¼²æææ¾¼O;Aæd-¼²æææ;u;C!¹Dææ¶¶Qææ°o;A!Ó¥@¥D²æææ-æ¶¶Q;A-GæT  
 ¥Nææ¥;C«D©ú¥D²æææ-àÄææ;AæµææÄ@±òææ¥H®Ä;C

;@;@æ¥æ\$¥Á³¼è¥H«p;Aæµæ\$¥Áæ¥©¥H°°;C-G®Ä©óæj¹;A¥ý¼w!Ó¹v;F®Ä©óæµ¹;A«e!D  
 !Ó¹k;F!¥@æ\$©ò°bæ;Cæµæ@æ\$©ò;ç,q¹;A±N¥B¥Áææ\$©ò;A!Ó¼o"ä©ò°c;F!¹"ä©ò  
 çææ,q¹;A±N¥B¥Áææ\$©ò°c;A!Ó¼o"ä©ò¼Öæ;CæG¹!W¶¶Q¹è°ö;Aææ¥iææ¹æ;C¥B¥Á  
 æ\$©ò¼Ö;A«h¥Á¶æ"ä©ò°c;F¥B¥Áææ\$©ò°c;A«h¥Áw"ä©ò¼Ö;C!ó¥H³¼"äµMæ;HæÒ¥Á¼~  
 «h«ä;A«ä«h¥X«x;F¼Ö«h²;A²]«h¥Í\$H;C-G¥H!D¹v«h¥Á«Á;A¥Á«Á«hµL«Á;AµL«Á«h  
 ¥Á!w"ä©ò¼Ö;C¥H,q±Ð«h¥ÁÁa;A¥ÁÁa«h¶¶Q;A¶¶Q«h¥Á¶æ"ä©ò°c;C\$^©ò;ç;D¹;A,qæ\$  
 ¥»æ;F!Ó¥@©ò;ç,q¹;A¼Éæ\$¹Dæ;CæÒ¥ç¥Á¹;G¥H"ä©ò°c;A¥²²x"ä©ò;ç;F¥H"ä©ò!n;A¥²±Ñ"ä©ò°c;C

;@;@æv°è;D!h!Ó½àæÖ;A¶¶Q¹æ½à!h!Ó;DæÖ;C-Gæý¹!DæE!Ó½àæ@;A«d°è½àæE!Ó;D  
 æ@;CæÒ!L³«pÁ;A«h!D!³»-«;Fµ½²³æjæp;A«h½á³!hæÖ;C!æG¹;A¥@æ\$±¥Í  
 æ;C!D¥[©ó,°©²x;A«h«Áææ¥h;A½à-I©ó¥Á©ò,q;A«h¹Læææ;C!Dææ"ä¥h«Á;A!Ó½à  
 ææ"äæ¹L¹;A¥²¶¶Q;C-Gæý¹!D¥Í!©ó±N¹;A«hæj,ææ¥i;F½à-I©ó\$;«Á;A«h²Ó¹Lææ  
 ¥ç;Cævæ"ä"æj,ææ¥i;A²Ó¹Lææ¥ç;A«h°èæv;A°èævæ²³¼É;Cæ@°è!ææ\$;A!òæ°çW  
 ¹v;FæG°è!ææ\$;A\$L«hæÖ;FæÑæU!ææ\$;A!Ü¼w\_¥B;C!\$¥¥H®Ä!Dæææ¶¶Q!ó¼w;A!ó,q!X©ó¼Éæ;C

;@;@æ¥¹¥Áð°¥Í!Ó,s³B¶¶Q;A-G°D!³æWæ;CµM«hæÑæUæ\$¼Ö!³æWæ;A±N¥H-°ævæ;C  
 æµ!³¥D!ÓµL¹k;A"ä®»»PµL¥D!P;F!³æææ³Ó"ä¶¶Q;A»PµL¹k!P;CæÑæUææ!wµL\$g;A!Ó





¾Ô; C§§`k§§k!LÑ`z¤§-x; A«h!Ñ`İ§§`d; A@z`İ±j¼!; A`d¼!|b¤β; A«h`İ«i¥Á\$ó  
¼!; A!Ó©Ä¥Á¤£¾Ô; C-G¤ê·V`İ¤T-xµL-Û!L; A!¹²±¤O¤§¹D; C

àÚ¥O²Ä¤Q¤T

j @ ; @ àÚ¥O «hªv¤£`d; Aªk¥-«h!OµL«Á; Cªk¤w©w`o; A¤£¥Hµ½ ¥®`ªk; C¥ó¥\«h¥Á¤O`¥  
; A¥óµ½«h¥Á|h`¥; C!æªk¥ÑÁ\_ j ¥H¤-`½Ä`ªİ¤y; A¥H¤Q`½Ä`ªİ¾É; A±Jªvªİ«d; C¥H!D  
ªv; A¥H!½à¾Ô; C`D`L¤£`Dµ½; C-Gªk¥B!Ó¤£-²; A«hÁ¤¥ÁÁÜ!l-p; A!l-p¤; A¶Q»ô¤í  
`İ; A!É©x¤§`LÀi; A«p, S¥H!Ü¥i; C°êµL«Á¥Á; A«h³£µL«Á¥«; Cª«h¥½²³; A!A¦«Á  
³O; A«h°ê¥²«d; C¥Á!³¾Ä³; A`İ¥Á¥Hµ`¥X©xÁi; C©xÁİ¥²¥H`¤¤O; A«h¹A¤£«â; C¥!¤o  
¤§°PµL`i; A¥²¤£`¤; C±Ä©x¤©Äİ¥X, S¤£¥H¥; A-OµL`i¤; C

j @ ; @ °è³h!Ó`È¾Ô; A-r; é©ó¼Ä; AµL¤»½¾; A¥²¾É; C°ê`T!Ó¤£¾Ô; A°½¥İ©ó¤; A!³¤»  
½¾; A¥²®Z; C°ê¥H¥±Ä©x¤©Äi; A!¹; x¥H²±ª¾; Ñ; A¥H²±«i¾Ô; C¥H²±«i¾Ô; A¥H²±ª¾  
¿Ñ; A`ª°ê¥²µL¼Ä; C°ê¥H¥±Ä©x¤©Äi; A«hªv-Û`¥!è; F!¹; x¥Hªk¥hªk; A¥H`¥¥h`¥; C  
°ê¥H¤»½¾±Ä©x¤©Äi; A«hªv·D`¥¥İ; F!¹; x¥Hªk-Pªk; A¥H`¥-P`¥; A«h§g°È©»j`¥; A  
©x¶Ä©óªv`·; C`·!Ü³±o§Ó; A!³¥ª!¤é°h; A!¹; x¥ç!u; C!u¤Qªİ¶Ä; A!u³üª!ªv; Cªk  
¤w©w`o; A!Ó!n¥İ¤»½¾ªİ¤; C¥Á²!A; A«h°ê`T; F¤»½¾¤£¥İ; A«h§L¥Á²!ÄvÄU; Ó¼Ö-°  
¥D¥İ; A`ª!Ò¤¤¤¥Á; Aª§¥H-°ª; A²°¥H-°ª; C`ª!`-°½àÄU»@ªq; F`ª¤U; A¥Á`c¤§; A  
¼-¤§; A²Ü¤§; C-x®e!Ó¥H`¥; A®ç³h¥H¥-¥æ; A¥HÁx¹A¾Ô; A¥~¥æ¥H³Æ; A°è¤§!M¤; C!³  
ÄÈ`H!ª`¤; A¤£-°§Q, S¤§-G¾Ô; A!ª`°è¤§«U¤; C

j @ ; @ ¤»½¾; G¤êÄ\$¼Ö; A¤ê, Ö®Ñ; A¤ê-xµ½; A¤ê§µ§İ; A¤ê, Û«H; A¤ê-s·G; A¤ê¤·q; A¤ê  
«D\$L; A¤ê²Ü¾Ô; C°ê!³¤Q¤Gªİ; A¤WµL`İ¹A¾Ô; A¥²³h!Ü«d; C¤Q¤Gªİ`·s; A!¹; x§g¤§  
ªv¤£³O`ª!Ü; A©x¤§ªv¤£³O`ª¥Á; A!¹; x¤»½¾ª³O`ª-F¤; C¤Q¤Gªİ`³¾é; A¥²«d; C-O-G  
¿³°è¤£¥İ¤Q¤Gªİ; A-G`ª°ê!h¤O; A!Ó¤Ñ¤U²°¤§-à¥Ç¤; C§L¥X¥²`ú; A`ú¥²-à!³¤§; F  
«ö§L!Ó¤£§ð; A¥²`T; C`Â§È¤§; O; A¤Oª!¤£`·¤; A!hª!¤£·!¤; C®Ä¥!Ó`ú©xÁi; AÁö  
!³ÁG`¥; A¤£±o¥H-Û¤¤¤; A!¹; x¥H¼Æªv; C¥H¤O§ðªİ; A¥X¤@`ú¤Q; A¥H`¥§ðªİ; A¥X¤Q  
¤!È; C°è!n¤O; A!¹; x; u¥HÁø§ð; v; F°è!n`¥; A!¹; x; u¥H©ö§ð; v; C

j @ ; @ -«!D¤Ö½à; A¤W·R¥Á; A¥Á!ªW; F-«½à»`!D; A¤W¤£·R¥Á; A¥Á¤£!ªW; C§Q¥X¤@ªÁ  
ªİ; A`ª°êµL¼Ä; F§Q¥X¤GªÁªİ; A°ê¥b§Q; F§Q¥X¤QªÁªİ; A`ª°è¤£!u; C-«!D©ú¤; İ; A  
¤£©úªİ; A¤»½¾¤; C¤»½¾ª¹; s; A«h¥Á¤£¥İ; C-O-G¿³°è»@!æ«h¥Á¿È; A½à!æ«h¥Á§Q; C  
!æ»@; A-«`ªªİ; A`ª!¤£!Ü; A-«ª!¤£`Ó; A!¹; x¥H!D¥h!D; A!D¥h`Æ!; C, o-«!D  
»`j; A!D!Ü`Æ¥İ; A!¹; x¥H!D-P!D; A`ª°è¥²«d; C

j @ ; @ , t§gª³¼ª«¤§-n; A-G`ªªv¥Á!³!Ü-n; C-G°ó½à»@¥H³ü»²ªªİ; A¤B¤§Äò¤; C, t§g  
¤§ªv¤H¤; A¥²±o`ª¤β; A-G`ªªv!¤O; C¤O¥İ¾É; A¾É¥İ«Á; A«Á¥İ¼w; A¼w¥İ©ó¤O; C, t§g  
¿W!³¤§; A-G`ª-z¤·q©ó¤Ñ

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j @ ; @ °è¤§©Ö¥Hªvªİ¤T; G¤@¤êªk; A¤G¤ê«H; A¤T¤êÄªv; Cªkªİ; A§g!Ü¤§©Ò!@¾¤¤; F«H  
ªİ; A§g!Ü¤§©Ò!@¥B¤; Fªvªİ; A§g¤§©Ò!W`i¤; C¤H¥D¥ç!u; A«h!M; F§g!ÜÄªk¥ó  
`p; A¥²¶Ä; C-G¥Bªk©ú¤Ä; A!Ó¤£¥H`p®`ªk; A«hªv; Fªv`İ; WÁ\_©ó§g; A«h«Á; F¥Á«H`ª  
½à«h`Æ¥!; A«H`ª!D«h«ÁµL°Y; C±©©ú¥D·Rªv-««H; A!Ó¤£¥H`p®`ªk; C-G¤W!h`f`¥  
!Ó«g`ª!½à; A«h¤U¤£¥İ; F¼Æ¥[ÄY¥O!Ó¤£-P`ª!D; A«h¥Á¶Æ, o; C¤Z½àªİ; A¤ª¤; F§Q  
ªİ; AªZ¤; C¤ªªZªİ; Aªk¤§-ù¤; C-G©ú¥D·Vªk; C©ú¥D¤£½ª¤§¿x©ú; A¤£`Ü¤§¿x!ª; C  
-G½à«p!Ó§Q; A!D-«!Ó¥²; A¤£¥ç²`·; A¤£`p¿Èªñ; C-G!Ü¤£½ª¥D; A¤U¤£`Ü¤W; C

j @ ; @ ¥ª¤§-ªvªİ; A!hÄªªk!Ó¥ó`pª³; A!¹°è¤§©Ö¥H¶Ä¤; C¥y¤y¿¤ªv¿Ä; A¥B¤¤O; A  
!Ó!Ü¤µªk¤§; A`ªªÄ©ú¤; C¤OÄªªv¿Ä!ÓÁ\_»'-«; A¼o¤¤¤O!Ó·Nªµµ; AÁöªİ; A°Ó, ¤¤£



; @ ; @ © P - x m s 3 Ó ; A μ Ø - x m s 3 Ó ; A - 3 ± Û - ° ! Ó a F m s ; C a F m s ; A μ L - q ǵ c 0 ú ' o ; F i Ó ; O μ S ǵ H - ° m j  
 ǵ ; A - ° ' ä - 1/4 Ä m j ; C m ǵ H - 6 - T m s ; a ; A ± t T @ Ê m s ǵ Á ; A i Ó ' I m s ' ' Æ ǵ » ; C i ' ' ä - 1/4 Ä m j ; A » P  
 3/4 Ó 3 Ó ; P 1 é ; A i Ó - 3 ± o m s ǵ H - ° μ - ; A i ' m i ' ä e ' ' ä m m s - p m j ; C ǵ B © P - x m s 3 Ó ; A μ Ø - x m s 3 Ó ; A a 0  
 ǵ - m s 3 Ó ; A - 3 © Ò m ǵ Á a i ' X i ó ; A ǵ Á « Ê m s ǵ L m s ± o ' Æ ǵ » a i ' X i ó ; A i Ú Á Ñ ǵ H - ° m s ǵ i 1/4 Æ ' o ; C ° 2  
 ' I m s ǵ s ; s i Ú ; A i 3 - ä ǵ i m s ; A ǵ O i ' m s ǵ b ; A @ z @ Ê ± j - 3 ; A - Y m T 3/4 Ó m s 3 Ó a i ; A m ǵ ǵ ǵ [ m j 1/2 ä  
 2 j ; C m i ' Ú m s 3 Ó ' ǵ ; A ǵ Á μ L m @ m s ǵ i Ú ; A © x μ L 1/4 Æ ; ú m s ǵ O ; A ' ' ä @ z @ Ê ± j - 3 i 3 i L m T 3/4 Ó m s 3 Ó ; F  
 i Ó m ǵ μ S ǵ H - ° m s ǵ i ; A « h i Ú · M m s - ä 3/4 m w ; C » δ m H i 3 a F 3 c ' - a i ; A μ S i h Ä @ ; A Ä @ i 3 ; U a ÷ ; C ' ä  
 @ { 1/2 D c ê 2 j ; A m s » P ; A m s é ; G i u s ^ ± N ǵ H ' D « Ê m j ; C j v ' ä @ { « ä i Ó ǵ H m s ǵ s ° ; A m s é ; G i u i μ L - q © 6  
 · R m j ; A - G m s i p » P m s ǵ Q m j ; C j v m μ @ Ê i ǵ ǵ Á ; A i Ó - 3 · R ' ' ä \_ ; A i ' · R « D ' ' ä i 3 ǵ H ǵ c ' ' ä i 3 m j ; A  
 ° Z 2 a F 3 c ' - m s · R « D ' ' ä i 3 i Ó ǵ c ' ' ä R { ǵ G ; H ǵ B ǵ j i 3 3 6 μ i ; A · i @ Ê i Ó ' £ Ü ; F m s ǵ @ i 3 ' ö a Z i ; A  
 i b i i Ó ǵ Á a A ; C i ǵ ǵ m ǵ a i ; A ; U ǵ @ m s 3 Ó Ö Ü ǵ H - ° ; m ǵ a i m j ; C μ M ' a i D μ S m s - ä ' ' ü ǵ i Ó 6 « á ; C  
 m μ \_ m s ǵ T ǵ @ ; A i Ó m T @ Ê m s ǵ ǵ Á ǵ i ° Ê m j ; A - O « D m ǵ 1/2 ä m O m μ @ Ê ; A i Ó ' I « á ǵ @ - ° m ǵ ǵ i ǵ G ; H μ M « h  
 « D , t s O » ; j ; A i Ó Á ǵ ; m H Ä Ø m j ; C

!D-ù²ÄmQm»[-É]

½äiD²ÄmQmC

; @ ; @ ; m H m s - ° ° ê m j ; G 3 ü 1/2 ä ; A 3 ü i D ; A 3 ü ± D ; C 3 ü 1/2 ä « h s L μ L 1/4 Ä ; A 3 ü i D « h ǵ O i a e ; A 3 ü ± D « h  
 m U Á ǵ m W ; C m Ø © ú 1/2 ä m s ǵ O ; A © ú i D m s 1/4 @ ; A © ú ± D m s Ä Ü ; A i Ó ǵ Á a 3/4 © 6 ǵ Á ° È ; A ° è μ L 2 s « U ; C © ú 1/2 ä  
 m s μ S ; A i Ü © 6 μ L 1/2 ä m j ; F © ú i D m s μ S ; A i Ü © 6 μ L i D m j ; F © ú ± D m s μ S ; A i Ü © 6 μ L ± D m j ; C

; @ ; @ © Ö ; x 3 ü 1/2 ä i ; A s Q , S © x Ä i ; A a b ǵ X © 6 s L ; A μ L i 3 2 s - I m j ; C m Ø © T a 3/4 · M ; A ǵ Q i 1/2 ä ; A « i  
 © Ä ; A 1/2 ä m s ' v ; A - Ö ° È ' ' ä Y Á r m s 3/4 ; A ° Ü ' ' ä N ° D m s m O ; A ǵ X i ° i Ó - ° m W ǵ i m j ; C m Ñ m U » ' 3 C 1/2 ä  
 ' ' ± q m s i p - y m s ; C - O - G s L μ L 1/4 Ä ; A i Ó ǵ O i a e © 6 m Ñ m U ; C ; U - 1/4 m s ° è ; A m s ' ± Ä - ' ' ä s L m s - i ; C m d  
 - 1/4 m s ° è ; A m s ' ± @ Ä « ° ; C ; U - 1/4 m s ° è ; A - Y i 3 Ä - ' ' ä s L m s - i a i ; A 3/4 Ó ± N Ä D ' ' ä - x ; C m d - 1/4 m s ° è ; A  
 - Y i 3 @ Ä « ° a i ; A s δ ± N - ä ' ' ä « ° ; C 3/4 Ó ǵ 2 Ä D m H m s - x ; A s δ ǵ 2 - ä m H m s « ° ; A ° È « ° i Ó i 3 m s ; A ° È «  
 i Ó - P m s ; A Ä ö « p / 4 y 1/2 ä ; A i 6 ǵ O i 1/4 m s i 3 ' o ; C © ö ' ö « Ê © 6 Ä Ü - T ; A m s a ǵ « Ê © 6 s Á © P ; A m s é i Ê ' 1/2 i C  
 ' ö » P @ ä 3/4 Ó © ö » ± i 0 m s ǵ 3 ǵ ; A a Z m s » P - ö 3/4 Ó © 6 a a ǵ m s m s ; A m j - } m E - x ; A ' ' ò m ö m s « Ê 1/2 Ñ « J ; A m h  
 ' ' ö s m s - a i ' 1/2 i 3 Ñ Ä ; A ' ' m ǵ ö @ s m s - 1/4 ; A ± q ° ' μ Ø m s m s ǵ ǵ ; A ± q m ú © 6 ' A ; A i ; A ± q m s i Ñ i Ó m s  
 i - ; A i ' ' ö a Z m s 1/2 ä m j ; C - G m s ; G Ä Ü - T s Á © P m s μ - ; A ǵ H 1/2 ä m Ñ m U m s m H ; A m s m H ± o m @ m s ; F ǵ H ' a  
 ; ú 1/2 ä m Ñ m U m s m H ; A m s m H ± o m @ ; ú ; C - G m s ; G i Ê ' 1/2 m s s g ; A i Ó « Ê « J ' ' ä i Ú ; A m j ' ' ä Ä Ä ; C i Ü m h ' ' ò  
 s m s - a i ; A ' 1/2 i 3 Ñ Ä ; C 1/2 ä m s 3 Ó Ö ǵ ; A 1/4 e © 6 m ú ' ° a i ; A i ó m j ; H μ 1/2 i m Ñ m U m s 3 f ; A ǵ H 1/2 ä m Ñ m U  
 m s m H ; C - G m s ; G i u © ú 1/2 ä m s ǵ O ; C j v ' ö a Z - J ' ' @ ä - ö ; A @ ü m μ L @ ' ; A m Ñ m U m j © w ; A ; v m - @ w ; A  
 Ä Ä m - s L ; A ° 3 a Z ' Æ ; A i a m s a ± D ; A - È ; ü m z m a ; A Y ' Ó C s @ - ° 1/4 Ö ǵ H ǵ Ö ' a 1/4 w ; C · i i @ Ê m j ; A 1/2 ä , S  
 m s i a e ; A i Ó ǵ Á 3/4 ä » δ ; C - G m s ; G i u © ú 1/2 ä m s μ S ; A i Ü © 6 μ L 1/2 ä m j ; C j v

; @ ; @ © Ö ; x 3 ü i D a i ; A i D μ L μ ǵ - Ä ; C i Ü - è - Ü ± N - x ǵ H i Ü m j m Ø ± m H ; A i 3 m s ± q m ǵ O ; A ǵ C ° è  
 ; T i A ǵ Ä m W ' T i ; A ; o i m s 3 j ; C i 3 ǵ © 6 « e ; A i 3 ± Ñ © 6 « á ; A m s - ° · i D ; C i 3 μ 1/2 © 6 « e ; A i 3 i L  
 © 6 « á ; A m s - ° Á « a k ; C © 3/4 i Ú s μ a i 3 i L ; A ǵ ǵ H ' a 1/4 Æ Ä \_ ; C i u a k i u Ä 3/4 m s i O ; A i 3 m s i a e m s a k  
 a i ; A ; o i m s 3 j ; A i D m i m T ± Ú ; C i P © x m s m H ; A a 3/4 i Ó ° P m s m W a i ; A i Ü s K © 6 , o ; C μ L ǵ Q 1/2 ä ; A m  
 Ä s ' ' ä © x a 0 m s © x Ä i ǵ D , S j C - G m s ; G i u - « i D 3 ' ' ä , o ; A « h ǵ Á m s ' ± , Ö i C j v ǵ Á m s ' ± , Ö i A - G μ L  
 i D m j ; C m Ø ǵ y a ǵ s , T ' e ± b i ; A Ä m H m s ' - i A ö ' m H m s - ± ; A « D ' D ǵ [ Ê ǵ Á m j ; A ǵ H , T « Á m i L m j ; C  
 - G , T « Á m i L ; A 2 ö - Y - « i D ; C i D - « i Ó ǵ 2 ± o ; A « h ǵ Á m s ' ± , Ö i A - G ° è μ L i D ǵ Á ; C ° è μ L i D ǵ Á ; A  
 - G m s ; G i u © ú i D m s 1/4 @ ; C j v @ Ê m s a ǵ 1/2 y © ú i D ǵ H ; È i Ê © m j ; A © 6 - O ; X 1/2 Ñ « J m j m Ø © 6 ' i m d © c ; C Ä A  
 3/4 e « á i Ú ; A 1/2 D ' a , o ; C s g m s ; G i u ǵ i ' Æ 2 j ; A ; v i O i E Ä - Ä A 3/4 e m s - a ǵ H @ i ; C @ Ê ° è m s m H ; A 1/2 j j  
 - Ö Ä B ; A m s ; G i u Ä A 3/4 e m s i 3 Ä m j ; A Ä ǵ H @ i ; A a p © 6 s Ú ǵ G ; H ; v Ä i s L ǵ i ± ä m i a - 3 Ä ; A m i 3/4 G m s  
 ° ñ ; A a F i 2 Ä m s - a ; A 3 Ó - ö m H © 6 « Ä ä ; C m T - x m s m H ; A m s m s i p ± Ü - i ; A i a m s i p - y m s ; C m T - x m s  
 m H ; A μ L ± ǵ C , T a i ; C - G m @ 2 1 D - « » ' © 6 Ä A 3/4 e m s - á ; A i Ó @ Ê ° è a v ; C © 6 a i © P m ǵ 1/2 ǵ i ± b ° P ' ü ; A  
 - y Ä N ' ü ; A m s ; G i u ǵ C , T a i m j ; C j v m Ñ m U 2 3 - Ö m s ; G i u ; È © 6 ǵ ǵ i 3 i L m s i H ; A i Ó a p 2 ' » ·  
 ǵ G ; H j v - G m Ñ m U a 3/4 ǵ i m M ; ÷ © 6 © P @ x ; A i Ó @ ü m a v ; C - G m s ; G i u © ú i D m s μ S ; A i Ü © 6 μ L i D m j ; C j v

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 æ ¥ i ¥ H µ ù ; D ; A æ ¥ i ; W ¥ ß · p Ä ¥ H³ ~ ¨ ä w ; C ° r Ì ; A³ ¼ U ã ; A ; C Á ö æ , t³ ¼ ¥ © ì ð « p³ ¼ è ; A  
 « h æ ¥ à ¥ H « D ¥ Á É w § Q ; C µ M ¹ ¶ Q æ § ¨ à ; A - n ! b³ ¼ Ö ! Ó æ w · o ; C © ¼ - à³ ¼ Ö ã ; A ½ ð ¹ ¶ Q æ § ¨ à ; F  
 ¾ É ± ð ã ; A ; ± ± ! D ! Ó æ § ; C - O æ ± ¥ S ; B © ø § ; B³ ¼ Ä Ñ ; B ± b² W ( æ ö § i æ k ) ; B ! X ! P ã ; A - Ò  
 æ ; G ; u ° È æ § © Ö ¥ ; A ! s³ ¼ Ö ! Ó æ w · o ; C ; v æ Ö - G · í § § ¨ à Ì È © ö ¾ Ö ; A ! Ñ © Z ¨ à Ì È © ö ; u ; F ! ò ã æ  
 © - ; A ¥ Í ¨ à È Ä U ; C ! ; Ú æ § © Ö ; x³ ü ± ð ã ; C ¥ Á æ § ± ý ¹ ¶ Q æ ; A ! @ Á ö ´ Á ! Ó « á æ ; C ! Ó ¹ ¶ Q æ §  
 ¨ à ; A ¥ ¥ X © ö § L ; C - O - G ¥ Á » D ¾ Ö ; Ó - Ú ¶ P æ ; F ° \_ © - ¶ ¼ - ¹ © Ò ° q Á Á ã ; A ¾ Ö æ ; C ! ; Ú æ § © Ö  
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 - G ! è ± ð ! Ó ! h ¥ ; C ; t æ H v ° è æ ; A © ö³ ¼ ! Ó Á ø ! æ æ ; C - O - G , t æ H æ ¥ ¥ ¥ ; A æ Z æ D æ ¥ ¥ ¼ o ; C  
 ± þ æ H æ - ° ¼ É ; A ½ à æ H æ - ° æ ¨ à ; A ° è ¨ à k © ú æ ; C ; t æ H ¥ H ¥ ± Á © x æ © Ä ; A - G ½ à ¨ à æ ¥ ¼ ~ ; C , t  
 æ H æ « É ! L ; A æ § ; D ; A - G « Á µ L ° \_ ; C ; t æ H v ° è æ ; A ¼ f³ ü ! Ó æ w · o ; C

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 µ L · Ñ³ æ æ § ¥ Á ; A ! æ ± o ¥ Í ¼ ! ; C · æ æ ! P ; A - Ò æ ¨ à ; A © È² æ ; C - « ¹ A æ § ¥ @ ; A ¨ à k · Ñ ! Ó - ¹ ; A  
 ° ü Á ! Ó ; C ; A ! D - F æ ¥ ! ; Ó v ; A ¥ Ö § L æ ° \_ ! Ó æ ; C - « ¹ A - J · S ; A ¥ H ¾ É³ Ó @ Z ; A ¥ H 2³ ¼ É ! è ; C  
 - G ¶ Ä « Ö § @ - ° § g ! Ú æ w æ U æ § , q ; A æ ± æ ¥ S § ! æ § Á § ; A æ Ö ° ü ! m æ Ç æ § ! X ; F æ ° ; æ æ M ; ± ; A ¥ - ¥ Í Ö  
 § L ; A - G © È Á Ü æ ; C ¥ Ñ ! æ ! æ ; A - « ¹ A « D ° æ © ö ¶ Ä « Ö æ ; A µ M ¨ à ! W L ã ; A ¥ H ¾ A © ö © È æ ; C - G  
 ¥ H ¾ Ö ¥ h ¾ Ö ; A Á ö³ ¼ Ö ¥ i æ ; F ¥ H ± þ ¥ h ± þ ; A Á ö ± þ ¥ i æ ; F ¥ H ! D ¥ h ! D ; A Á ö - « ! D ¥ i æ ; C

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 ¥ Á æ § ¥ » ! b ¨ à ¥ Á ; A - Y § M © ö ± ; A³³ © ö æ g æ ; C ¥ » æ ° i ; A « h ¥ Á ! p - , ¾ ¼ ¨ à ~ j A ¨ à ± E ¨ à ¨ à  
 æ § ; H ¥ Á ¥ » ; A ¨ à k æ ; C - G µ ½ v ã ; A ¶ e ¥ Á ¥ H ¨ à k ; A ! Ó ! W ! a § @ · o ; C ! W L ! a ¼ s ¥ H ! Ü © ö æ ¨ à ; A  
 ! ó - G ; H ¾ Ö³ Ó ¨ à ; C ! W · ð ! a « d ¥ H ! Ü © ö æ ¨ à ; A ! ó - G ; H ¾ Ö ½ } ¨ à ; C æ³ Ó ! Ó æ ; A æ ± Ñ ! Ó  
 æ ¨ à ; A ! Ü ¥ j æ µ ; A ¥ ¼ ! Á ! æ ; C ¥ Á « i ã ; A ¾ Ö³ Ó ; F ¥ Á æ « i ã ; A ¾ Ö ± Ñ ; C ¨ à³ ü ¥ Á © ö ¾ Ö  
 ¨ à ; A ¥ Á « i ; F æ ¨ à³ ü ¥ Á © ö ¾ Ö ¨ à ; A ¥ Á æ « i ; C , t æ ¨ à æ § - P © ö § L æ ; A - G Á ! è ! Ó ð æ § © ö  
 § L ; C æ ¨ à è ; A E ! ¨ à v ; A ¥ Á ¥ Í ¨ à ¾ É ; C © O ¥ H ¨ à ¥ Á æ § · æ ¥ ! æ ; H ¥ Á æ § · æ ¾ Ö æ ; A ! p ¾ j - T  
 æ § · æ i x ; A « h ¥ Á ¥ ! o ; C æ Z ¾ Ö ¨ à ; A ¥ Á æ § © Ö æ ; F ¨ à ¨ à ¥ Á ¼ Ö ¾ Ö ¨ à ; A æ ; C Á ! è æ § ¥ Á ; A æ ±  
 ; ð ¨ à æ ; A ¥ S ; ð ¨ à § ! A © ð ; ð ¨ à æ ; A - Ò æ ; G ; u æ ± o ; A µ L ¨ à ð ; C ; v æ æ ; G ; u ¥ æ ¨ à k Æ ± ¥ O ; A  
 - Y ! § Ú ! ; A ¶ m v æ ; C ; v ! æ ¶ ! µ L © Ö k ; A ¾ É ± µ µ L © Ö æ ; C ! æ ¶ ! æ § v ; A³ s ¥ H æ - j ; A ç æ æ ¥ H  
 ¾ ; A § ð æ § ¥ H ¥ O ; A © á µ L © Ö³ B ; A ½ } µ L © Ö ¥ ! ; C - O ¥ H æ T - x æ § 2³ ; A ± q ¥ O ! p - y ; A ! è ! Ó æ ± Ü ; æ ; C

; @ ; @ ° è æ § ¶ Ä æ ; A « D ¨ à ¨ à k ¶ Ä æ ; A « D ¨ à k æ ¥ Í æ ; C ° è - Ò !³ æ k ; A ! Ó µ L · Ñ³ æ² ! æ æ § ¨ à k ; C ° è  
 - Ò !³ , T « Á ¨ à ! D µ s , é æ § ¨ à k ; A ! Ó µ L · Ñ³ æ ¨ à k ; C - ° « Á ¨ à , µ s , é æ ¨ à ; A ! è ! D ; A ! Ó  
 « Á ¨ à , µ s , é æ æ ¨ à ; A æ ¥ ± o æ ; C ¥ ± o ; A ! Ó ! © !³ « Á ¨ à , µ s , é æ ¨ à ; A ! D » ¨ à ; C ! D » ¨ à ; A æ  
 ± o , Ý æ ; C ¥ ± o ¨ à ; A ! D !² æ ; C - G µ ½ v ã ; A ! D æ µ ½ ; A ! Ó æ ½ à µ ½ ; A - G æ ! D ! Ó ¥ Á µ ½ ; C  
 æ ! D ! Ó ¥ Á µ ½ ; A ! D - « æ ; C ! D - « ¨ à ; A ¥ Á æ ¨ à ± ¥ Ç ; A - G µ L ! D æ ; C ! Ó ¥ Á² ö ´ ± - ° « D ; A - O æ @ ° è  
 - Ò µ ½ æ ; C - G æ ½ à µ ½ ; A ! Ó ¥ Á µ ½ ; C ½ à µ ½ æ æ ¥ i æ ; A µ S ½ à æ µ s ; C - G µ ½ v ã ; A · Ñ Ü ö ¥  
 « H ; A ! Ó p § B ! i ¥ G ; H æ ¨ à v ã ; A · Ñ § B ! i ¥ ¨ à ; A ! Ó p Ü ö ¥ G ; H ¶ Ö æ ¨ à - ° « Á ; A Á ö Ü ö ¥ i « H  
 æ ; F ¶ Ö ± o - ° « Á ; A Á ö § B ! i ¥ ¨ à æ ; C

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 ! b æ U ; A æ ¨ à v æ ´ ± - ° « D ; A - O ; x - « v ; C æ © ú ¥ D ! b æ w ; A © Ö Á ! æ ¨ à v ; F ° è µ L © ú ¨ à k ; A æ ¨ à v  
 ¨ à ± - ° « D ; A - O ; x - « ¶ Ä ; C § L © Í - « ¾ É ; A © Í - « @ Z ; C ¥ Á © T ± ý ¾ Ö ; A æ S æ ± o æ ¾ Ö ; A - O ; x - «  
 ¾ É ; C ¥ Á © T æ ± ý ¾ Ö ; A æ S ± o µ L ¾ Ö ; A - O ; x - « @ Z ; C

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 æ ; A ¼ o ¨ à k § @ · p Ä ! , S æ § ¹ ¶ Q ; C æ Z æ H ¥ D ¼ w ! æ « D ¥ X æ H æ ; A³ ¼ « D ¥ X æ H æ ; A « æ æ © « D ! L æ H  
 æ ; C µ M ¥ Á Á ö³ , t³ ¼ æ ± ± § Ü ; Ñ ; A « æ æ ¥ ± ± § Ü ± þ ; F Á ö² æ æ ´ ±³ Ö ¨ à ¥ D ; F Á ö ¥ Á ! Ü » ð , U æ §





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j @; @¥Áæ§æ°Æ; A²ö-W©ó¹A; A-G»<sup>a</sup>væ¥i¥H·Ïæ§; C@O; x»<sup>a</sup>v; H·ä¹A³h!Ó°Ó¹; A-G  
"ä-¹/²â¹; ú-«; C-¹/²â«h¹A³h; A; ú-««h°Ó¹; F¥½/²Ææ; T; A«h\$P¥©æ§æH\$Q; A!Ó°ä-¹  
¹²æ§; x; m; C-G¹Aæ§¥ÏæO³Ï-W; Aæ; p°Ó, è\$P¥©æ§æH; C-e-à¥O°Ó, è\$P¥©æ§æHµL  
Äc; A«h±ý°èæ§µL T; Aæ¥i±oæ; C-Gæè±ý¹A T·ä°è¹; A¹Óæ°æ§-¹¥²¶Q; A!Óæ¹Aæ§  
¼x¥²h; A¥«§Qæ§²¥²-«; A«h¥Áæ±oµL¥Ð; CµL¥Ð; Aæ±oæ©ö°ä-¹; F-¹¶Q«h¥Ð¹  
§Q; A¥Ð¹§Q«h·Æ¹²³; C-¹¶Q; A÷@-¹æ§§Q; A!ÓæS¥[-«¼x; A«h¥Áæ±oµL¥h·ä°Ó, è\$P  
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Äk©ó¹A¹; A T; C-G¥X¾Æ!Ó¾Æ; AæJ¥ð!Ó T¹; Aæý; m; C

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j @; @¥¹¹¥¼¹³§g!ÚæWæUæ§®É; A¥Á¶Ä!Óææ¹v; C-O¥H, æH\$O¶Q¹/²â; A·îÄ!î; A¥B!W  
, j; A¥H\$O§g!ÚæWæUæ§, q; C!æ¼s; A¥Á²³; A, Uª«!h; A-GæÄæ-©x!Ó!uæ§; C¥Á²³!Ó«Ä·  
¥Ï; A-G¥Bªk·î-«x¶q¥H, Tæ§; C-O-G!³§g!Úæ§, q; Aæ-©xæ§æÄ; Aªk·îæ§, T; Aæ¥iææ  
·Væ; C³B§g!î!Ó¥Oææ; æ; A«h!M; Fæ-©xæÄ!ÓµL±; j; A«h¶Ä!Fªk·î³!; Ó·pµ¹/²æ; A«h¥Á  
ææ-È!D; C§g·L«h¥O!æ; A©x-x«h!³±·Æ; Aªk·îÓú«h¥Á-È!D; Cªk·îææ©ú; A!Ó·D¥Áæ§  
±q¥Oæ; Aæ¥i±oæ; C¥Áæ±q¥O; A!Ó·D§gæ§·Læ; AÄó³óµÏæ§³/4; Aææ-à¥Hªv; C©úæý  
æ§ªvæNæUæ; A¹/²ªk!Óªv; A«ö¥!Ó¹/²æ; CæZ¥Áæ§©Ö-è³/4ÓææÄx!ª¹; A¥H·DÄ! Sæ; C©ú  
§gæ§ªv·èæ; Aæh!³±Û-°®, æ§¥; A¥²ªäÄ!-°ææ; A, S·-¹æ; C¹AææÄ÷æª¹; A·-  
¥H¾ææG; E; Aµ¹-x·Æ; C-G-xæh!°, j; A!Ó¹A¥Áææ°¹/²æ; C

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¹D¥Áæ§ªv; A!bæW©Ö¥ý; C-G¥Á¥i¥O¹A¾Æ; A¥i¥O·ä«Æ; A¥i¥O¾Æ°Ý; C!bæW©Ö»Pæwæwæwæwæ  
¥H¥ª³O»P; A«h¥Á¾Æ!Ó; FæW¥H, ÖÖN»P; A«h¥Á¾Æ°Ý; C¥Áæ§©ó§Qæ; A-Yæð©óæUæ; A¥!®C  
µL¾ÆUæ; C¥Á®{¥i¥H±o§Q!Ó-°æ§¹; AæW»Pæ§æ; C¹/²Q¥Ø§æµÄ!Ó»y«i¹±o; A««!ç»niÓ  
¹/²!ª¹; j±o; A; ðæéÄææ; l; n³O·pª¹!±o; A L!VæT¹; AµL¥V!Ó-Ò¥i¥H±o; A¥Á¥h¹A¾Æ!Ó  
-°æ§; A©Ï¹/²!Ä³!Ó-Äæ§; A©Ï·Æ«K¹@!Ó¹/²ææ§; A©Ï¥H«iªæ§; C-G¹A¾Ææ§¥Áææ¹è; A!Ó·ä  
-¹¹·U²³; A«h°è¶Ä!Ó!æ«d; A§L®z!Ó¥D·ö; C!ªª©Ö¥HµM¹; AÄÄªk·î!Ó¥ð!WªAæ; C

j @; @-G©ú¥D·Vªk·î; C·¥æææª¹; AææÁææ; F!ææææª¹; Aææª¹; F·Ææææª¹  
¹; Aææ-¹æ; C·¥ææª¹; A«hÁææ§; F!æææª¹; A«hª¹; F·Æææª¹; A«h-°æ§; C-G°èª¹!Ó  
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T·Ï²ÄæGæQæ¥

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