NEALL . G

```
K>A_!L!K>KI! - (($()/#)!Q'+,&((+'!+,!a#()'9\)$+#!!C\D++.!+,!a#)&'<$(\$5.$#/'*!C)9<$&(!!RD&!!
               "#\%&'()*!+,!R&S/(!/)!4/../(1!^\D/'<(+#1!RV0!
K>ABLA_!
               Y&\)9'&'!!C\D++.!+,!a#)&'<$(\$5.$#/'*!C)9<$&(!!RD&! "#$%&'($)*!+,!R&$/(!/)!4/../(!!!
               ^{\L}D/'<(+\#1!RV0!
K>AB! !
               - <b9#\)!Q'+,&((+'!+,!7$()+'*1!;/3(+#!@+..&:&1!;/3(+#!Q/'01!U - 0!
K>A=!!
               - < b9# \setminus (+'!+,!7\%) + *!! ; & O(D'\&!@+669#\%) + @+... & (1!Q\%) + ... & (1!U-0!) = 0
K>A?LK>A=!
               8'/<9/)&!C)9<&#)!Y&\)9'&'!+,!7$()+'*1!R&S/(!-TU!"#$%&'($)*1!@+..&:&!C)/)$+#0!
K>A>LK>A?!
               R\&/\D$\#:!-((\$()/\#)c4\$(\9((\$+\#!Y\&/<\&'!!R\&S/(!-TU!"\#\$\%\&'(\$)*!!@+..\&:\&!C)/)\$+\#!!!
               RV0!
K>> LK>A>!
               R\&/D\#:! - ((\$()/\#)0!!P+')D!4/O+)/!C)/\&!"\#\%\&'(\$)*1!2/":+1!P40!
K>>=LK>>_! C&\+#</'*!C\D++.!7$()+'*!R&/\D&'0!!!PC"!"#$%&'($)*!C\D++.!!4/%$&!!2Y0!
1 23456578*&739:5; < *%=73>?*
Z#%$'+#6&#)/.!D$()+'*c()9<$&(!!'&.$:$+#!/#<!&\+.+:*c#/)9'&d!&/'.*!-6&'$\/#!D$()+'*d!6+<&'#!
- 6 &'$\/#!D$()+'*d!'&.$:$+#!/#<!5+.$)$\(d! - 6 &'$\/#!5+59.''!\9.)9'&d!&/'.*!/#<!6+<&'#!M+'.<!
D$()+'*d!'&(&/'\D1!)&\D#$\/.!M'$)$#:!/#<!$#)&..&\)9/.!$#e9$'*0!!
!
!
                                        +#@/'$%&'().*
0 A ; A <= 3B :*
K>KK!
               !"#$ %&'()#$ *+$ '"#$ ,#-./.*(0$ ,./"'1$ $ !"#$ 2')(//-#$ 3#'4##5$ 6*50#)7&'.7#$
```

```
A_G>LAF>>0[! ! P+')D&'#! 8'&/)! Q./$#(! 7$()+'*! @+#,&'&#\&!! C)0! @.+9<!!
                       U$##&(+)/0!
K>>F!!
               XRD&!C$:#$,$\/#\&!+,!)D&!Y&M$(!/#<!@./'O!ZS5&<$)$+#0[!!<u>OD$! - .5D/!RD&)/</u>!!
               @+\#,\&'\&\#\setminus\&!!"\#\%\&'(\$)*!+,!C+9)D!4/O+)/!!o\&'6\$..\$+\#!!C+9)D!4/O+)/0!!
!
!!!!!!!!
                                    %H%,".*3;8*K()(,.?*
K>A=!!
               RD\&!U9''/*!/\#<!@\&.\&()\&!2/(0\&\#!4\$()\$\#:9\$(D\&<!8'/<9/)\&!C)9<\&\#)!R\&/\D\$\#:!-M/'<0!!!
               R\&S/(! - TU0!)
                                             L,%)&.**
                                      %) "*-!//(H.K'+.?*
K>A=! !!
               P/)$+#/.!C\$&#\&!2+9#</)$+#!)'/%&.!:'/#)0!! - CZ7!\+#,&'&#\&0!
K>A?!!
               Y*##!Z0!U/*!!1'0!!C)9<*!8'/#)0!C+9)D&'#!;/5)$()!7$()+'$\/.!Y$3'/'*!/#<!-'\D$%&(0!!
K>A?!!
               o$($+#!K>K>!4$((&')/)$+#!Z#D/#\&6&#)!-M/'<0!R&S/(!-TU0!
K>A?!!
               R'/\% \& .!2 \& ..+ M(D\$5!8'/\#) 0! R \& S/(!-TU0!
K>AI!!
               ^&(&/'\D!/#<!Q'&(&#)/)$+#!R'/%&.!8'/#)0!R&S/(!-TU0!
K>AK! !
               P/)$+#/.!C\$&#\&!2+9#</)$+#!)'/%&.!:'/#)0!! - CZ7!\+#,&'&#\&0!!
K>AA!!
               R'/\% \& .!2 \& ..+ M(D\$5!8'/#)0!!R \& S/(!-TU0!
K>AA!!
               U\&.3\&'\#!80!8./((\+\0!R'/\%\&.L)+L@+\#,\&'\&\#\\&!2\&..+M(D\$50!!R\&S/(!-TU0!))
K>A>!!
               R'/\%\&.!2\&..+M(D\$5!8'/\#)0!!R\&S/(!-TU0!
K>A>!!
               ^&:&#)!2&..+M(D$50!R&S/(! - T U0!!
       !
!
                                            &!%$K')L**
$A2=>7>*&32<:F**
K>ABL!!
               Z\#\%'+\#6\&\#)!\%\#!-6\&'\%/!HA!(\&\%)\%+\#!/!*\&/'J!
               Z/'.*! - 6\&'\$/\#!7\$()+'*!HA!(\&\backslash)\$+\#J!
K>KIL! !
K>KIL!!
               Q\&'(5\&\)$\\&(!+\#!7\$()+'*!\HA!(\&\)\$+\#J!
K>ABLK I!
               RD\&!P/)9'\&!+,!a\#)\&..\&\\)9/.!a\#e9$'*!HK!(\&\\)$+\#(!/!(\&6\&()\&'J!!
K>A LKI!
               ^&.$:$+#!/#<!Q+.$)$\(!HA!(&\)$+#!/!*&/'J!
K>A LKI!
               - 6 &'$\/#!Q+59./'!@9.)9'&!HK!(&\)$+#(!/!*&/'J!
K>AB! !
               Z#%$'+#6&#)/.!C)9<$&(!HK!(&\)$+#(!/!(&6&()&'J!
```

```
K>A=!!
               Q'\&LU+<\&'\#! g+'.<!7$()+'*!HA(&\)$+\#!/!(&6&()&'J!
K>A?LAG!
               Z/'.*! - 6\&'\$/\#!7\$()+'*!HA!(\&/)\$\#!/!(\&6\&()\&'J!
1
@./((!(\sp\delta(\varphi!_LI>>!
R\&/D\&'!\&\%/.9/)$+#\!?\\\\BGcG\\\>\!\\\G!\i!\D\$()!\&\\\&..\&\\\&J!
!
!
                                      .!,M'$!*%$&'M'&'!.*
                                                    *
, 7D57E7=*
K>KA!!
                - ')$\.&!'&%$&M&'\!!6"()9"\$E.0'\*)B!!@/63\$<:&!\#\$\&\(\$)\*!Q\&((!
K>AB! !
                ^&%$&M&'!,+'!()9<&#)!/')$\.&\\!!!!"#\$8J-#B\!RD&!"#\%&'(\$)*!+,!R&S/(!/)!4/../(!
K>AB! !
                - ')$\.&!'&%$&M&'\\!!857.)*5; \#5'&-\$E.0'\*)B!! ] S,+'<! "\#\\&'\(\$)\*!Q'&((!
"7B3=FN7;F*.7=D597**
K>KIL! !
                "\#<\&':'/<9/)\&!^&(\&/'\D!T!C\D+./'.*!-\)%%)*!; +/'<!U&63&'!
K>KIL!!
                7\$()+'*!4\&5/')6\&\#)!@9''\$\9.96!-<\%\$(+'*!@+66\$))\&\&!!
K>KKLKI!
                @+66$))&&!+#!@+66$))&&(!6&63&'!
K>KALKI!
                (0+6.6))&&!+#!Z<9\/)$+#/.!R&\D#+.+:*!!,\\9.)*!/<\\$(+'*!\+6.6))&&!6&63&'!
K>K>LKI!
               C\&.\&\)+#!\+66$))&&!,+'!)D&!Z$\D+'()!C\D+./'(D$5!
K>K>LK I!
               C&.&\)$+#!\+66$))&&!,+'!)D&!C&&O'$!C\D+./'(D$5!
K>K>LK I!
               C\&.\&\)$+#!\+6.6$))\&\&!,+'!)D\&!Q\&)'$\0!C\D+./'(D$5!!
               C\&.\&\)+#!\+66$))&&!,+'!o/#!-639':D!C\D+./'(D$5!
K>K>LK I!
K>K>LKI!
               C\&.\&\)+#!\+66$))&&!,+'!)D&!8/.&'()&$#!C\D+./'(D$5!!
K>K>LK I!
                - 9S$.$/'*!C&'%&(!-<%$(+'*!@+66$))&&!
K>A LKI!
                ^&.$:$+9(!4$%&'($)*!8'+95!,/\9.)*!\+L(5+#(+'!
K>A LKI!
                P&M!C)9<&#)!Z#: /: & 6 &#)!; +/'<!!|PCZ; J!!, /\9.)*!/<%$(+'*!\+6 6$))&&! 6 & 6 3&'!
K>>FLA>!
                8'/<9/)&!C)9<&#)!^&5'&(&#)/)$%&!H&.&\)&<J!!P+')D!4/0+)/!C)/)&!"#$%&'($)*!
K>>FLA>!
                Q'\&(\$<\&\#)!+,!QD\$!-.5D/!RD\&)/!H\&.\&\\)\&< J!!P+')D!4/O+)/!C)/)\&!"\#\$\%\&'(\$)*!
K>>!!
                o \k!O' \& (S < \& \#)! + .!OD ! - .5D / !RD \&) / !!P + ')D! 4 / O + ) / !C) / \&! " # $ % & '($) *!!
```

K>>F!!

]'/.!7\$()+'*!o\$<&+:'/5D&'0!!

- 6 &'\$\/#!7\$()+'\$\/.!-((+\\$/)\$+#!!
- ((+\\$/)\$+#!C+\\$&)*!,+'!Z#%\$'+#6&#)/.!7\$()+'*!!

K>KK! ! a#)&'%&M&<!3*! g \$#()+#!@D+\$LC\D/: '\$#!!@.\$6/)&!4&(0!!!"#\$%#4\$O*)I\$!.;#0\\$

K>KK! ! XR&/\D\$#:!Z#%\$'+#6&#)/.!a((9&(!\$#!@D'\$()\$/#!C\D++.!Z<9\/)\$+#I[!!^\$:D)\$#:!!

- 6&'\$\/!!/!,+'96!,+'!(\D+./'.*!\+#%&'(/)\$+#!/3+9)!@D'\$()\$/#\$)*1!\9.)9'&!!/#<!

5+.\$)\$\(!\$#!)D&! "0C0!!

D))5(\(\mathbb{C}C'\\$:D)\\$#:/6&'\\$\/0#&\)c)&/\D\$#:L&#\\$'+#6&#)/.L\\$((9&(L\\$#L\D'\\$()\\$/#L\\D++.L\\&<9\/))\\$+#c!
!

K>KAL! ! @+'#&..!"#\$\&'(\\$)*!Q'&((!89&()!Y&\)9'&'!\\$#\!@9.)9'&!T!@9.)9'/.!C)9<\\$&(1!7\\$()+'*1!!\^&.\\$:\\$+#!T!^\&.\\$:\\$+9(!C)9<\\$&(1!C\\\$&#\&!T!P/)9'&!!"0C0!7\\$()+'*0!\!

 $K \gg !$!

X " 0C0!

CD/,,&'!!^+3&')0!! g D*!<\$<!\+#(&'%/)\$%&!&%/#:&.\$\/.(!)9'#!/:/\$#()!)D&!Z#%\$'+#6&#)r!!!"#\$\$
6").0'.&5\$6#5'()B!!HU/'\D!=!!K>KIJ0!

D))5(%cMMM0\D'\$()\$/#\&#)9'*0+':c'&%\$&Mc3++O(cMD*L<\$<L\+#(&'%/)\$%&L&%/#:&.\$\/.(L)9'#L/:/\$#()L&#%\$'+#6&#)!

; '/#\Dl! 8 .&##0!! ^ &%\&M!+, !! ''#\%&'()#\\$*\\$''\#\\$, #-./.*(0\\$, ./'''\\$\\$! ''#\\$2')(//-#\\$3#' 4##5\\\$ 6*50#)7&'.7#\\$87&5/#-.9&-0\&5:\\$'''#\\$857.)*5; #5'&-\\$<*7#; #5'\!\3*!P\&/..!\Q+:9\&\!, #F*)'0\\$*+\\$'''\#\%\&'.*5&-\\$6#5'\#)\\$\!+\\$\\$29.#59#\\$8:(9\&'.*5