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"+(.!?+-&5. -%#\$, !@3->(*\$(. <77A!B"?@!"#"?@!\$%!+5!. 6353; \$6!-. %. +-6#!C\$-; !((\$6+&. (!&3!
 , -3D\$(5: !#\$: #EF' +>\$&)! . 6353; \$6!+5(!&-(. !, 3>\$6)!-. %. +-6#!&#+&!+%%. %%!&#. !C' >>\$; , +6&%!B/3&#!
 , 3%\$\$D. !+5(!5. : +&\$D. G!3C!H1=1!+5(!C3-. \$: 5!&-+(. !, 3>\$6\$. %!+5(!, -+6&\$6. %<, -3, 3%. (!+5(!+6&' +>135!

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X>>\$+56. !C3-!A# . ; \$6+>!O\$%&-\$/ ' &\$35 \ %' , , 3-&!+5(!6#+; , \$35%!&#. !6#. ; \$6+>!(%&-\$/ ' &\$35! Z, . -&!&#. !*3->(!(. , . 5(%!35!&3!%+C. >)<-. >\$/>)<-. %, 35%\$/>)<+5(!% ' %&+\$5+/>)!; 3D. !&#. !6#. ; \$6+>!, -3(' 6&#!. %% . 5&\$+>!&3!3' -!(+\$>)!>D. %!XAOT%!; 3-. !&#+5!]SS!6#. ; \$6+>!(%&-\$/ ' &\$35!\$5(' %&-)! ; . ; / . -%!+- . !, -\$; +->!)!; +>>!; ' >\$E: . 5. -+&\$35+>C+; \$>)E3 * 5. (!/' %\$5. %% . %!O' . !&3!\$; \$&. (!; +5' C+6&' -\$5: <!&#. !H1=1!\$!-. >+\$5&!35!6-\$&\$6+>!6#. ; \$6+>%!\$; , 3-&. (!/)!XAO!; . ; / . -%!&#+&!+- . ! . %% . 5&\$+>!&3! . D. -)!\$5(' %&-)<!\$56>' (\$5: !, ' />\$6!%+C. &)<!\$5C-+%&- ' 6&' - . <+ : -\$6' >&' - . <+5(!&-+5%, 3-&+&\$35!

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X; .-\$6+5!"-' 6L\$5:!X%%36\$+&\$35%\ &#. !D3\$6. !3C!&#. !\$5 (' %&-)!X; .-\$6+!(. , . 5(%!35!; 3%&!&3!; 3D.! 3' -!5+&\$35T%!C-. \$: #&!@. !+-. !+!QSE). +-!3>(!C. (. -+&\$35! *\$&#!%&+&. !&- ' 6L\$5: !+%36\$+&\$35!+CC\$>+&. %!\$5! +>>! S!%&+&. %!@. !-. , -. % 5&! D. -)!% 6&3-!3C!&#. !\$5 (' %&-)<C-3; !7''7!&3!&- ' 6L>3+(<+: -\$' >&' -. !+5(! >\$D. %&36L!&3!+' &3!#+> .-%<+5(!C-3; !>+-. !. !; 3&3-!6+--\$. -%!&3!%; +>>!; 3; E+5(E, 3, !3, .-+&\$35%1!X"X<! &#-3' :#!3' -!J5&. -; 3(+>83&3-!A+--\$. -!A35C. -. 56. <+>%3!-. , -. % 5&#!+!%' /% .&!3C!X"X!; . ; / . -! 63; , +5\$. %! *#3!3, . -+&. !+&!3' -!5+&\$35%!, 3-&#!+5(!\$5>+5(!\$5&. -; 3(+>C+6\$&\$\$. %! !

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X%%36\$+&\$35!3C!IF \$, ; . 5&!8+5' C+6&' -. -%\ &#. !g3-&#!X; .-\$6+E/+%. (!&-+(. !: -3' , !-. , -. % 5&\$5: ! 3CCE-3+(! F' \$, ; . 5&!; +5' C+6&' -. -%!+5(!%' , , >\$. -%! *\$&#!; 3-. !&#+5!P<PSS!; . ; / . -!63; , +5\$. %!+5(! ; 3-. !&#+5!hSS!, -3(' 6&!>\$5. %!\$5!&#. !+-\$6' >&' -. <: \$5\$5: <C3-. %&-)<+5(!635%&- ' 6&\$35E-. >&. (! \$5 (' %&-)!% 6&3-! * 3->(*\$ (. 1!

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X' &3!A+-. !X%%36\$+&\$35\ (. (\$6+&. (!&3!#. >, \$5: !&#. !+' &3!6+- . !\$5 (' %&-)!&3!L. . , !D. #&\$6>. %!; 3D\$5: ! +5(!>%&\$5: !>35: . -<, . -C3-; \$5: !/ . &&. -<+5(!L. . , \$5: !(-D. -%!+C. !!M' -!:>3/+>; . ; / . -!63; , +5\$. %! ; +5' C+6&' -. <(\$%&-\$/' &. <+5(!% .>! D. -)!%\$5: >. !, +-&!+5(!63; , 35. 5&<+5(!, . -C3-; !% . -D\$6. < ; +\$5&. 5+56. <+5(!-. , +\$-%!35! D. -)!6>%%!3C!D. #&\$6>. !35!&#. !-3+(! !

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A35% ; . -!" . 6#53>3:)!X%%36\$+&\$35\ X%!g3-&#!X; .-\$6+T%!>+-. : %&!&. 6#53>3:)!&-+(. !+%36\$+&\$35< A"X!\$!&#. !&. 6#!% 6&3-!1!M' -!; . ; / . -%!+- . !&#. !* 3->(T%!>. +(\$5: !\$553D+&3-%!i !C-3; !%&+-&' , %!&3! :>3/+>/-+5(%!i !#. >, \$5: !%' , , 3-&!; 3-. !&#+5!PR!; \$>\$35!X; .-\$6+5!f3/%!A"X!3*5%!+5(!, -3(' 6. %! AI=! !i !&#. !; 3%&! , 3* . -C' >&. 6#! D. 5&!\$5!&#. !* 3->(1!4\$5 (!' %!+&!A"X!&. 6#!1!43>3*!' %!j A"X&. 6#!!

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433&* . +-!O\$%&-\$/' &3-%!^!U. &+>\$. -%!3C!X; .-\$6+\ &#. !C33&* . +-!\$5 (' %&-)T%!&-+(. !+5(!/' %\$5. %%! +%36\$+&\$35<-. , -. % 5&\$5: !; 3-. !&#+5!`SS!C3(.)O. 4mBT500(!)-O. 1. 5(!)O. 50005O. 3(!)-O. 4(.)O1(&#)-O. O. 3

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633, . --&\$D. %!&3!C33(!- . &+&\$. -%!+5(!% ' , , >\$. -%<+>>!35!&#. !6' &&\$5:!. (: . !3C!\$553D+&\$35!+5(!
' %&+\$5+>./!/' %\$5. %%, --+6&\$6. %1!''3: . &#. -&1&#.)!- . , -%. 5&!; 3%&!3C!&#. !; \$>L<6#. . %<6\$. !6-. +; <
)3: ' -&!+5(!6' &' - . (!, -3(' 6&%<+5(!(+&-)!\$5: -. (\$. 5&!, -3(' 6. (!+5(!; +L. &. (!\$5!&#. !H5&&. (!
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+(D36+6)!+5(!\$5(' %&-)EC+6\$5: !% ' , 3-&1J4?X! , -3' (>)!- . , -%. 5&%; . ; / . -!63; , +5\$. %<C-3; !%; +>>
C+; \$>)!/' %\$5. %%. %!&3!>+-. : !63-, 3--&\$35%<1&#-3' : #3' &!&#. !C-. %#!C-' &!+5(!D. : . &+>./!% ' , , >)>!6#+\$5<
\$56>' (\$5: !-3* . -%<1%#\$, , . -%<C-. %#E6' &! , -36. %%3-%<1* #3>. %+>. -%<(\$%&-\$/ ' &3-%<1-. &+&\$. -%<C33(!
' . -D\$6. !3, . --&3-%<1\$5(' %&-)!% ' , , >\$. -%<+5(!+>>\$. (!+%%36\$+&\$35%!

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<)/#7\$)'#&7##/\$),+&#\$(#@(/#&'\$: +(#\$'')&SHDD;DDD\$(#')*\$,\$+2)''*&/)\$ &7\$+8#(\$! 4J\$<*, '*+&\$&\$
<. 6*&=\$@+O#(>!' #&+ '59+(5@(+9*';\$9. ,5/#(8*2#1//+2*)'+&\$+99#(/\$: #: <#(\$2+: @)*#/\$)\$O*7#
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. Z. 6' &\$D. %<1\$5(. , . 5(. 5&13C!+5)!%#\$, \$5: !>\$5. <1* 3-L!&\$>. >. %>)%!&3!%. 6' - . !&#. !; 3%&!63; , . &&\$D. !
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* 33(!, -3(' 6&%!\$5(' %&-)!\$5!g3-&#X; . -\$+!@. !/-5: !&3: . &#. -! . D. -)!% . : ; . 5&13C!&#. !: >3/+>
' , , >)>!6#+\$5<C-3; !, -3(' 6. -%!+5(!% . -D\$6. !, -3D\$ (. -%!&3!\$; , 3-&. -%<(\$%&-\$/ ' &3-%<1; +5' C+6&' - . -%<
+5(!- . &+&\$. -%!J@?X!\$!63; ; &&. (!&3!% ' , , 3-&\$5: !&#. !>. : +>+5(!% %&+\$5+>./!#+-D. %&\$5: !3C! * 33(!
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. Z. 6' &\$D. E>. D. >. Z, . -&\$%. !&3!(. >\$D. -!' /%&+5&\$+>63%&!%+D\$5: %!/ . 6+' % . !5+D\$: +&\$5: !&#. !63; , >. Z&\$\$. %!
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- . , -%. 5&\$5: !. D. -)!C+6. &!3C!&#. !%. +C33(!D+>' . !6#+\$5!H1=11%. +C33(!, -3(' 6. -%<1; +5)!3C! * #6#!+- . !
' ; +>>!/ ' %\$5. %%. %<1635&-\$/ ' &. !%\$: 5\$C\$6+5&>!&3!&#. !5+&\$35!% . 6353;)!+5(!, -3D\$ (. !% ' %&+\$5+>./<
#\$: #EF'+>&!)C\$5C\$%#!+5(!%# . >C\$%#1C3-!X; . -\$+5!C+; \$\$. %!+5(!6' %&3; . -%!* 3->(* \$(. !J5!&#. !, -36. %&!
&#. % . !63; , +5\$. %!' , , 3-&!+ , , -3Z\$; +&. >)!P1d!; \$>\$35!X; . -\$+5!f3/%!M5!/. #+>C!3C!%. !
63; , +5\$. %<g4J!+(D36+&. %!C3-! . CC. 6&\$D. !&+ (. !, 3-\$6)<- . % , 35%\$>./!- . : ' >+&\$35<+5(!5' &-&\$35!, 3-\$6)!
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%C#&A,*8#\$3A)) : /D\$

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!"#\$%&'()*+,-./)*'(0+/*-.*/(12'345-(-01'* . 6'3+*(-(01'47'8)-. *'3+090./'/)0'"':#:'(4; ; 0+(-*5'
1)-3<=-56-. , '-. 6=1/+>'7+4; '(4; 30/- . , '-. /0+. */-4. *55>:'\$)0>*1?06'/)*'/)0'"'. -/06'#/*/01'*11011'*700'4. '
090+>'8)-. 010@, *60'1)-3'/)*'(*551'*/*'"':#:'34+/2'* . 6'/)*'/)0'7001'(4550(/06'<0'=106'/4'1=<1-6-A0'/)0'
"':#:'1)-3<=-56-. , '-. 6=1/+>:'B. 'C0<+*=*+>'DE'/)0'B77-(0'47'/)0'"':#:'\$+*60'%03+010. /*/-90!'#\$%&'11=06'*10/
47'+0; 06>'0(4; ; 0. 6*/-4. 1'/)*'/. (5=606'34+/7001'* . 6'0F34+/+01/+(-/4. 12'14; 0'; 4+0'0F/0. 1-90')* . '
/)*'/14=,)/ '>'30/-/4. 0+12'/4'30. *5-A0'4(0* . '(*++0+1'/)*'/=10'8)-. 010@<=-5/1)-31'* . 6'/4'1=334+/'/)0'"':#:'
1)-3<=-56-. , '10(/4+:'

\$)-1'1'=6>*'-. ; 1/4'*11011'. 4'/4. 5>'/)0'34/0. /-*5'<0. 07-1'/4'"':#:'1)-3<=-560+1* . 6'/)0+1=3350+1'47'/)0'
0(4. 4; -(1=<1-6>'14=,)/2'<=/'*514'/)0'0. 0, */-90'+3350'0770(/1'47'/)0'*6606'/+*. 134+*/-4. '(41/1'*(+411/
/)0'+01'47'/)0'"':#:'0(4. 4; >'47'*1=<10'47'/)0'+0; 06>'0(4; ; 0. 6*/-4. 1'1=, , 01/06'<>'#\$%:'C4+/'0'
7-90'43/-4. 1'G0'0F*; -. 062'G0'7-. 6H'

I B90+*52'/)0'3+434106'+0; 06-01'G4=56')*90*' . -; 3*(/4. '/')0'"':#:'0(4. 4; >:'J*()'
43/-4. '0F*; -. 06'G4=56'1=</+*(/7+4; '"':#:'4=3=/'*/*'/*'; 0'G)0. '/')0'*6; -. -1+*/-4. '1'100?-. , /4'
, +4G'/)0'0(4. 4; >'*. * . =*5+*/0'47'KL:'C4+090+>'+0; 06>'43/-4. '0F*; -. 062'"':#:'0F34+/1'G4=56'
60(5. 02'34/0. /-*55>'(4. /+<=/'-. , /4'*G4+10. - . , '47'/)0'"':#:'/+*60'607-(-/:'

I M)-50'/)0'"':#:'1)-3<=-56-. , '-. 6=1/+>'!; * . =7*(/=+0+1* . 6'G4+?0+1&'G4=56'<0. 07-1'/7+4; '/')0'+0; 06>'
3+4341*512'; * . >'4/)0+10(/4+1'47'/)0'0(4. 4; >'!7*+; 0+12'; * . =7*(/=+0+1* . 6'10+9-(01'3+49-60+12'
-. (5=6-. , /)0+1'G4+?0+1&'G4=56'<0')*+; 062'* . 6'7+0N=0. /5>'1-. , -7-(* . /5>'14:'

I "':#:'* , +(-5/=+0'0F34+/0+1* . 6'G4+?0+1'G4=56'<0'3*+/-(-5*+5>)*+6@-/2'G-/)0'F34+/1'47'; *04+'
* , +(-5/=+0'3+46=(/1'5?0'G)0*/2'+-(02'(4+ . 2'4-510061* . 6'(4/4. '6+433-. , '6+* ; */-(*55>'P'<>'64=<50'
6-. , /1'- . /)0'(*101'47'G)0*/2'+-(0* . 6'14><0* . 1:'"'#:'0F34+/0+1'G-55'5410'(4; 30/-/90. 011'/4'0F34+/0+1'
-. 'Q+*A-52'8* . *6*2'%=11-*'*. 6'R=1/+*5-*:'

I S; 34+*/. /'0. 0+, >'0F34+/1'5?0'(4*52'4-52'. */=+*5', *1* . 6', 4461'0F34+/1'7+4; ' . =; 0+4=1'
; * . =7*(/=+ . , '-. 6=1/+01'G4=56'*514'1=770+60(5. 01'- . '4=3=/'* . 6'0; 354>; 0. /'<0(*=10'47'
-. (+0*106'1)-33-. , '(41/1* . 6'+06=(/-4. 1'- . /+*60:'

I "':#:'34+/1* . 6'+05*/06'10(/4+1'G4=56'0F30+0. (0'. 0'/ . 0, */-90'-; 3*(/1'4. '<4/)'4=3=/'* . 6'
0; 354>; 0. /:'

I R1'/)0'-; 3*(/1'47'/)0'+0; 06-01'7-5/0+1/-55'7=+/)0+1*54. , '1=335>'()* . 12'"':#:'; * . =7*(/=+0+12'-; 34+/0+1'
* . 6'+0/*-50+1'G4=56'7005'/)0'0770(/1:'M)4501*50* . 6'+0/*-5'/+*602')413-/*5-/>2'* . 6'(4. 1=; 0+10+9-(01'
-. 6=1/+01* . 6'4/)0+1=335>'()* . '1/*?0)4560+1'G4=56'*55'0F30+0. (0'60(5. 01'- . '4=3=/'* . 6'

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H1=!"-+(. !U. , -. % . 5&+&\$D. !BH="UG!6#+-: \$5: !&#+&!6. -&+\$5!+6&%<!, 3>\$6\$. %!
+5(!, -+6&\$6. %!3C!A#\$5+!, -. D. 5&!&#. !H1=1!63; ; . -6\$+>!%#\$, /' \$>(\$5:!
\$5(' %&-)!C-3; !63; , . &\$5: !5&. -5+&\$35+>>)!"#.)!+%L. (!C3-!C\$5+56\$+>
' , , 3-&!&3!>3* . -!&#. !63%&!3C!H1=1E/' \$&!%#\$, %!%3!&#.)!6+5!63; , . &. !
*\$&#!A#\$5. % . E; +(. !%#\$, %!"#.)!, -3, 3%. (!&#+&<!\$5!&#. !. D. 5&!&#. !+6&%<
, 3>\$6\$. %!+5(!, -+6&\$6. %!3C!A#\$5+!+- . !53&!&. -; \$5+&. (<!&#. !H5\$&. (!=&+&. %!
+%%. %!+!C. . !35! . D. -)!A#\$5. % . E; +(. !%#\$, !&#+&!6+>>!+&!+!H1=1!, 3-&<+5(!
&#+&!&#. !C. . %!63>>. 6&. (!/ . !' % . (!&3!%' /%\$(\$N. !&#. !H1=1!%#\$, /' \$>(\$5:!
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/.>\$. D. (!* 3' >(ln6-. +&. l>. D. -+: . !&3!3/&+\$5!&#. !. >; \$5+&\$35[!3C!&#. !
3CC. 5 (\$5: !%#\$, /' \$>(\$5: !%. 6&3-!, -+6&\$6. %1&!

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: 3!3' &!3C!H1=1!, 3-8%!&), \$6+>>)!-. &' -5!6+--)\$5: !\$; , 3-8%!&#\$\$%!. -.; . ()!
 -. 63; ; . 5(+&\$35!* 3' >(!\$5(\$-. 6&>)!\$; , +6&!\$; , 3-8%!+%! * . >!"#. !& * 3!
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 BPG 9. : \$55\$5: !35!&# . !. CC. 6&\$D. !(+&. !3C!&# . !- . ; . ())!+6&\$35<n+&!>. +%&[!
 Pe!3C!H1=1!, -3(' 6&&!B, . -!6+>. 5(+!) . +-G!&#+&!+- . !. Z, 3-&. (!/)!
 D. %%. >!; ' %&!/. !. Z, 3-&. (!35!H1=1EC>: : . (<H1=1E3, . -+&. (!%#\$, %1!" * 3!
). +-%!C-3; !&# . !. CC. 6&\$D. !(+&. !3C!&# . !- . ; . ())!+6&\$35<+&!>. +%&!_e!
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+; 35: !3&#. -!-.>+&. (!+6&\$D\$&\$.%!!I Z+; ,>. %!3C!, -3(' 6&#!; +5' C+6&' -. (!
 \$56>' (. !/+-.: . %!6+-: 3!%#\$, %!(->\$5: !+5(!, -3(' 6&\$35!, >+&C3-; %!C>3+&\$5: !
 3\$!+5(!: +%!, >+&C3-; %!<!, +%%. 5: . -!%#\$, %!+5(!% ' /; +-\$5. %!XD. -+: . !
 &355+: . !3C!H1=1!63; ; . -6\$+>!%#\$, %!\$%!%' /%&+5&\$+>>)!%; +>>. -!&#+5!* #+&!\$%!
 5. . (. (!&3!-. (' 6. !&3&+>+D. -+: . !%#\$, , \$5: !63%&%!!

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"#. !\$5(' %&-)!#+%!&* 3!; +-L. &!%. 6&3-%M; \$\$&+!)!+5(!63; ; . -6\$+>!* \$&#!
 &#. !H1=1!g+D)!&#. !, -\$; +-)!6' %&3; . -!3C!&#. !\$5(' %&-)!#"#. !; 3%&!-. 6. 5&!
 A. 5%' %!(+&+!+D+\$+>/. !B&#-3' : #!hSPdG!%#3*!&#+&!%+>. %!&3!&#. !g+D)!
 +663' 5&. (!C3-!k]e!3C!&3&+>!%#\$, /' \$>(\$5: !%+>. %!+5(!kde!3C!-. , +\$-!
 %. -D\$6. %!-. D. 5' . %!"!X663-(\$5: !&3!+!hSSP!5+&\$35+>!%. 6' -\$&!)!+%%. %%; . 5&!
 3C!&#. !\$5(' %&-)!%#\$, !635%&- ' 6&\$35!+5(!, -36' -. ; . 5&!; . (%!\$5!&#. !
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 4' -&#. -; 3- . <
 35>)!+!%; +>!

5' ; / . -!3C!H1=1!%#\$,)+- (%!+- . !6+, +/>. !3C!/' \$>(\$5: !>+-: . !63; ; .-6\$+>!

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. 6353; \$. %!3C!%6+>. 1[")4' -&#. -!&#. !+D. -+: . !3, . -+&\$5: !63%&!3C!+!H1=1E
C>+: !%#\$, !\$%!; 3-. !&#+5!h1k!&\$; . %!&#+&!3C!+!C3-. \$. 5EC>+: !%#\$, 1#*!

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M&#. -!-. 6. 5&!(. D. >3, ; . 5&%!\$5!&#. !; +-L. &!+5(!%3; . !>35: %&+5(\$5:!
, -3/>. ; %!#+D. !\$; , 3%. (!+5(!635&\$5' . !&3!\$5C>+&. !&#. !63%&!3C!H1=1E
; +(. !%#\$, %!!"#. !63%&!3C!%&. . >+5(!+>' ; \$5' ; !B/3&#!(3; . %&\$6!+5(!
C3-. \$. 5G!+- . !\$5C>+&. (!/)!&#. !\$; , 3%\$&\$35!3C!=. 6&\$35!h_h!+5(!_SP!&+-\$CC%!
35!\$; , 3-&%<#"!+%!* . >+!+%!+!#3%&!3C!+5&\$(' ; , \$5: !+5(!63' 5&. -D+&\$5:!
(' &\$. %!+CC. 6&\$5: !B>+-. : >)G!%&. . >!\$; , 3-&%!!=&. . >!63%&!+-. !-\$%\$5: WhSh!

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* 3-L!* . -. !]R!ke!#\$: #. -!
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(3; . %&\$6+>>)<. %&\$; +&. %!
C-3; !&#. !M-: +5\$N+&\$35!C3-!

I 6353; \$6!A33, . -+&\$35!+5(!O. D. >3, ; . 5&!%' : . %&!&#+&!\$5!hSP` !+/3' &!
P]e!3C!&#. !&3&+>D+>' . !3C!H1=1!%#\$, /' \$>(\$5:!, -3(' 6&\$35!*+%!63; , 3%. (!
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7+/3-!635%&-+\$5&#!+>3!635&-\$/ ' & . !&3!&#. !#\$: #!63%&!3C!H1=1E; + (. !%#\$, %!
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; +55. -1!"# . !+D. -+ : . !+55' +>* +: . !3C!, -3 (' 6&\$35!* 3-L. -%!\$5!&#. !
%#\$, /' \$>(\$5: !&\$ (' %&-)!* +%!hS1]e!#\$: #. -!\$5!hSh_!&#+5!&!* +%!\$5!hSPR1#&!
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91 43- . \$: 5!A3; ; . -6\$+>=#\$, /' \$>(. -%!

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-+5: . !\$5!&#. !+D. -+ : . !+5 (!; +Z\$; ' ; !%\$N. %!3C!%#\$, %!; + (. !/)! . +6#!
63' 5&-)<- . >&\$D. !&3!H1=1!D. %%. >!; +5' C+6&' - . -%!p. &<nm. D. 5!&#. !; 3%&!
%' 66. %&C' >%#\$, /' \$>(\$5: !C\$-; %!\$5!o3- . +!+5 (!2+, +5!3C&. 5!3, . -+&. !+&!+!

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 BH=8tG!-. , -. %. 5&\$5: !&#. !! +%&!+5 (!V' >!A3+%&!, 3-&%G!?!8X!; . ; / . -%!
 . ; , >3). (!; 3-. !&#+5!Pd<]SS!-. :\$%&. -. (!>35: %&3-. !* 3-L. -%!+&!hQ!@. %&!
 A3+%&!, 3-&%!\$""! +%&!+5 (!V' >!A3+%&! (36L* 3-L. -%!-. , -. %. 5&. (!/)!&#. !
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 L.)!, 3-&%!&3!%. -D\$6. !&#. % . !\$56-. +%\$5: >)!>-. : !D. %%. >%1!J5!-. %, 35%. !&3!
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 6' %&3 ; . -%!&3!&-+5% , 3-&!&# . \$-! : 33(%!/)!&- ' 6L!3-!-+>\$!C-3 ; !&# . - . !&3!H1=!!
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J5&-\$5%\$6!&3! , 3-&!\$5C-+%&- ' 6&' - . !+- . !6355 . 6&\$5: !-+>\$!+5 (!&- ' 6L!% . -D\$6 . %!
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]`e!\$5!635&+\$5. -!D. %%.>%1\$+!H1=1!+: -\$6' >&' -. !\$\$!, +-&\$6' >+>)!. 5%\$\$D. !&3!
\$56-. +%. %!\$5!%#\$, , \$5: !63%&&1\$(!

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. Z, 3-&. -%!3C!635&+\$5. -\$N. (!, -3(' 6&!* . -. !o36#!J5(' %&\$. %!BhPh<ddS!
"IH%<D+-\$. (!, -3(' 6&%<O3*!BPQd<]RR!"IH%<6#. ; \$6+>%<J5&. -5+&\$35+>!

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, -36. %!3C!\$; , 3-&\$5: !3-!. Z, 3-&\$5: !: 33(%!+5(!%. -D\$6. %!B. 1: 1!f3/%!
+%36\$+&. (!* \$&#!&-+5%, 3-&\$5: !\$; , 3-&%!C-3; !&#. !, 3-&%!&3!*+- . #3' %!&
f3/%!&!&#. !*+- . #3' %!&3-!. &+>f3/%!&#&!% . >>!&#. !&-+ ((!: 33(%!\$C!&#.)!
+- . !C\$5\$%#. (!635%' ; . -!, -3(' 6&%G!4\$5+>>)<3' -!; . (3>3:)!635%\$(. -%!
&#. !, 3%\$&\$D. !%-#!5. : +&\$D. !. CC. 6&%!3C!&-+ (. !35!f3/%!&+5(!. %' >&!&
-. , 3-&. (!+- . !&#. -. C3-. !n5. &[!f3/!\$; , +6&%!

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X%!(. &+\$. (!\$5!&#. !J5&-3(' 6&\$35!+/3D. <H="U!#+%!%L. (!C3-\$5, ' &!35!+!
-+5: . !3C!C. . !, -3, 3%+>%!+5(!+5! Z, 3-&E%, . 6\$C\$6!, -3, 3%+>!V\$D. 5!(+&+!
635%&-+\$5&%!+5(!&#. !%#3-&!&\$; . !\$5!* #6#&!&3!3CC. -!\$5, ' &!* . !#&D. !
>. 6&. (!&#-. . !C. . !%6. 5+- \$3%!C3-* #6#!* . !#&D. !/ . 5!+> . &!3!3/&+\$5!
&#. !5. . ((!\$5, ' &!(+&+&+5(!35. ! Z, 3-&!%6. 5+- \$3!!"# .)!+- . !

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BPG X!aP!; \$>\$35!C. . !+%%. %%. (!35!A#\$5. % . !; +-\$&\$; . !&-+5%, 3-&!
3, . -+&3-%!. +6#!&\$; . !+!%#\$, !\$5!&#. \$-!C>. . &!B* #. -. D. -!/' \$&G!>+5(%!+&!+!
H1=1!, 3-&!3C!. 5&-)!@. !C' -&#. -!. Z+; \$5. !&* 3!%6. 5+- \$3%MM4\$-%&!
6+--\$. -%!635&\$5' . !&3!' % . !A#\$5. % . E; + (!%#\$, %!&3!; +L. !H1=1!, 3-&!
6+>>%!+5(!&3!635&\$5' . !&3!(. >\$D. -!+>>H1=1E/3' 5(!6+-: 3!&3!H1=1!, 3-&%!
J!\$%!&#. !%6. 5+- \$3!; 3%&!>L. >!)\$5!&#. !C\$-%!B\$C!53&!&#. !%. 635(G!). +->3C!
&#. !\$; , 3%\$&\$35!3C!&#. !C. . </ . C3-. !6+--\$. -%!#&D. !#&+(!&\$; . !&3!; +L. !
+(f' %&; . 5&%!&3!; \$&\$: +&. !%3; . !3C!&#. !63%&!3C!&#. !C. !35!&#. \$-!
6' %&3; . -%!=. 635(<!%3; . !6+--\$. -%!+(f' %&! 3-&%!%. -D\$6. (!&3!&&. ; , &!
&3!>3* . -!&#. !63%&&!&3!&#. ; !3C!&#. !C. . !J!\$%!53&! 3%\$%>. !&3!L53*!+&!
&#%\$!&\$; . !&#. !, -. 6\$%. ! (. - . !&3!* #6#!6+--\$. -%!; \$: #&!; +L. !%. !
+(f' %&; . 5&%!43-!&#. !, ' - , 3%. %!3C!&#%\$!+5+>)%\$%</+% . (!35!
635D. -%+&\$35!* \$&#!%. !- . , -. % . 5&\$5: !\$5&. -5+&\$35+>6+--\$. -%<*. !
+%%' ; . !&#+&!` e!3C!6+--\$. -%!H1=1!, 3-&!6+>>%!+- . !&-+5%C. --. (!&3!, 3-&%!
\$5!A+5+(+!3-!8. Z\$63!!

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BhG X!aP!`!; \$>\$35!C. . !+%%. %%. (!35!; +- \$&\$; . !&-+5%, 3-&!3, . -+&3-%!B3C!
+5)!5+&\$35+&&)G!* \$&#!C>. . &%!63; , -\$%. (!3C!A#\$5. % . E/' \$&!%#\$, %!. +6#!
&\$; . !+!A#\$5. % . E/' \$&!%#\$, !\$5!&#. \$-!C>. . &!>+5(%!+&!+H1=1!, 3-&!3C!. 5&-)!
K. -. !+!%* . >>!* . !. Z+; \$5. !&#. !+ ((\$&\$35+>535E
+(f' %&; . 5&u+(f' %&; . 5&!%&-+&. :)! (. %6-\$/. (!\$5!BPG!+/3D. 1!

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B_G X!aP!; \$>\$35!C. . !. +6#!&\$; . !+!D. %%. >B3C!+5)!3-\$: \$5G!\$5!&#. \$-!C>. . &!
>+5(%!+&!+H1=1!, 3-&!3C!. 5&-)!+%%. %%. (!35!; +- \$&\$; . !&-+5%, 3-&!

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3, . -+&3-%!B3C!+5)!5+&\$35+>&)G!\$C!A#\$5. %. !%#\$, !3- (. -%!+663' 5&!C3-!
h` e!3-!; 3-. !3C!&#. !3, . -+&3-T%!&3&+>!%#\$, !3- (. -%!C3-! (. >\$D. -)!3D. -!
&#. !5. Z&!h]!; 35&#%1!@. !+>%3!. Z+; \$5. !&#. !+ ((\$&\$35+>+ (f' %&; . 5&!
%&-+&. :)! (. %6-\$/. (!\$5!BPG!+/3D. 1!
B]G X>H1=1!: 33 (%!; ' %&!/. !. Z, 3-&. (!35!H1=1EC>+: . . (<H1=1E/' \$&!%#\$, %<

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&#. %. !, 3-&!6+>>!+- . !&-+5%C. --. (!&3!A+5+ (+!3-!8. Z\$63!+5 (!&#' %!+D3\$(!

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%&36L!#+%!&\$; . !&3!+ (f' %&!&3!&# . !#\$: #. -!63%&&!+%36\$+&. (!* \$&#!&#. !C. .!
+5 (l63; ; . 5%' -+&. !6#+5: . %!\$5!3' & , ' &<. Z, 3-&!+5 (!\$; , 3-&!!

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M' -!-. %' >&!+-. !(. &+\$>. (!/ . >3 *!X: +\$<n53!+(f' %&; . 5&[!-. C. -%!&3!&# .!
\$; ; . (\$+&. !\$; , +6&%&!/ . C3-. !6+--\$. -%!#+D. !#+ (!&\$; . !&3!6#+5: . !&#. \$-!
' %+: . !3C!+CC. 6&. (!%#\$, %!B\$C!&#.)!6#33%. !&3!(3!%3G1!n=3; . !+(f' %&; . 5&[!

"#

!	g3!X(f' %&; . 5&! =3; . !X(f' %&; . 5&!)	=3; . !X(f' %&; . 5&!)
I Z, 3- &!B: 33 (%!+5 (!% . -D\$6. %G!	Eh1R_e!	Eh1kh!
E I Z, 3- &!3C!: 33 (%!35>)!	E`1hd!	E`1S_!
J; , 3- &!	EP1Sk!	ES1QR!
E J; , 3- &!3C!: 33 (%!35>)!	Ek1]k!	Ek1Pk!
VO?!	ES1S]!	ES1S]!
I; , >3); . 5&!	S!	S!
4+-; !#3' % . #3>(!\$563; . !	EPPI`S!	EPPIP]!

X: . - . : +& . !U. %' >%!C3-!=6. 5+-\$3!_WapI; \$>\$35!C. . !, . -!
, 3- &!6+>>!C3-!3, . -+&3- %! *\$&#!3- (. -%!C3-!A#\$5. % . E/' \$&!
%#\$, %!

MD. -+>>B+6-3% %!+>>!% . 6&3-%G<H1=1! . Z, 3- &!+5 (!\$; , 3- &! (. 6\$5. !/. 6+ ' % . !
3C!&# . !, 3- &!C. . %!+%%. %%. (!35!%#\$, %!3, . -+&. (!/)!A#\$5. % . !6+--\$. -%1!H1=1!
VO?!(. 6\$5. %!+5 (!C+-; !#3' % . #3>(!\$563; . %!(. 6\$5. 1!!

!	g3!X(f' %&; . 5&! =3; . !X(f' %&; . 5&!)	=3; . !X(f' %&; . 5&!)
I Z, 3- &!B: 33 (%!+5 (!% . -D\$6. %G!	EP1QSe!	EP1R_!
E I Z, 3- &!3C!: 33 (%!35>)!	Eh1`_!	Eh1]P!
J; , 3- &!	ES1]S!	ES1_]!
E J; , 3- &!3C!: 33 (%!35>)!	E_1d`!	E_1]`!

VO?

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X: : - . : + & . ! U . % ' > & ! C 3 - ! = 6 . 5 + - \$ 3 ! ` W = 6 . 5 + - \$ 3 % ! P E] !
% \$; ' > & + 5 . 3 ' % >) !

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MD . - + >> B + 6 - 3 % ! + >> ! % . 6 & 3 - % G < H 1 = 1 ! . Z , 3 - & ! + 5 (! \$; , 3 - & ! (. 6 > \$ 5 . ! / . 6 + ' % . !
3 C ! & # . ! , 3 - & ! C . . % ! + % % . % % . (! 3 5 ! % # \$, % ! 3 , . - + & . (! /) ! A # \$ 5 . % . ! 6 + - - \$. - % ! H 1 = 1 !
V O ? ! + 5 (! C + - ; ! # 3 ' % . # 3 > (! \$ 5 6 3 ; . % ! (. 6 > \$ 5 . 1 !

!

!	g3!X(f' %&; . 5&! =3; . !X(f' %&; . 5&!)	=3; . !X(f' %&; . 5&!)
I Z, 3- &! B: 33 (%! +5 (!% . -D\$6. %G!	Ek1]Re!	Ek1h]!
E I Z, 3- &! 3C!: 33 (%! 35>)!	EPP1Qk!	EPP1`d!
J; , 3- &!)	E`1hp!	E`1SP!

"%!

=#\$, /' \$>(\$5: !=' , , >. -!=. 6&3-%M!?. -6. 5&!A#+5: . !\$5!M' &, ' &!

!	g3!X(f' %&; . 5&!`!	=3; .!X(f' %&; . 5&!`!
!	P! h! _!]!`!	P! h! _!]!`!

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''|

X%!53&. (!. +-\$. -<H1=!!+: -\$6' &' -+>. Z, 3-&%!+- . !#\$: #>)!%. 5%\$\$D. !&3!63%&!
\$56-. +%. %

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"(

X: -\$' >&' -. W!?. -6. 5&!A#+5: . !\$5!4+-; !@3-L. -%!

!	g3!X(f' %&; . 5&!)	=3; . !X(f' %&; . 5&!)
!	P! h! _!]! `!	P! h! _!]! `!

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")!

M&#. -!>. +(\$5:!. Z, 3-&. -%! * 3' >(!+>%3!%. .!(. 6>\$5. %!\$5!&-+ (. !+5(!3' &, ' &! / . 6+' %. !3C!&#. !, -3, 3%. (!-.; . (\$. %1!?!+-&\$6' >+>)!+(D. -%. >)!+CC. 6&. (! * 3' >(!/. !. Z, 3-&%!3C!(+&-)! , -3(' 6&%!<+ , +-. <!>. +&#. -!, -3(' 6&%! B\$56>' (\$5: !C33&* . +-&<* 33(!, -3(' 6&%!<6#. ; \$6+>%!+5(!C. -&\$>N. -%<+5(! , #+-; +6. ' &\$6+>%!"#. !; 3(. >\$%!n: . 5. -+>. F' \$\$/- '\$; <[!; . +5\$5: !&#+&! -. %3' -6. %!+- . !%#\$C&. (!C-3; !%. 6&3-%!; 3%&!+(D. -%. >)!# ' (%) -O. JETQqO. 24004(.)O. 4Qq/

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#+!

M&#.-!V33(%!=.6&3-%M?.-6.5&!A#+5:.!\$5!IZ,3-&%!

!	g3!X(f' %&; .5&!					=3; .!X(f' %&; .5&!				
!	P!	h!	_!]!	`!	P!	h!	_!]!	`!

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01 A356>' %\$35!

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"#. !%, . 6\$C\$6!; 3(. >!' %. (!* +!&#. !V>3/+>!"-+(. !X5+>)%%?!?-3f. 6&!BV"X?G!; 3(. >!* \$&#!&#. !; 3%&!
 -. 6. 5&!V"X?!(+&+/%. <V"X?!DPP<- .>. +%. (!\$5!X, -\$!hSh_1!"#. !%&-' 6&' -. !3C!&#. !DPP!(+&+/%. !%!
 3' &\$5. (!/)!X: '\$+-. &!+>BhSPOG!@. !#>D. !' , (+&. (!&#. !(+&+!#. -. !/+%. (!35!hSh_!(+&+!!"#. !; 3(. >!
 +5(!\$&!+%36\$+&. (!(+&+!+. !(. D. >3, . (!+5(!; +\$5&+\$5. (!/)!+!5. &* 3-L!3C!-. %. +>6#. -%!+5(!
 , 3>\$6); +L. -%!633-(\$5+&. (!/)!&#. !A. 5&. -!C3-!V>3/+>!"-+(. !X5+>)%%?!+&!&#. !O. , +-&; . 5&!3C!
 X: -\$6' &' ->+! 6353; \$6%!+&!?' -(' . !H5\$D. -%&&)!V' \$(+56. !+5(!/+%. E>. D. >!' , , 3-&!C3-!&#. !; 3(. >!
 +5(!+%36\$+&. (!+6&\$D&\$\$. %!+- . !, -3D\$(. (!/)!&#. !V"X?!A35%3-&\$' ; <!*#\$6#!\$56>' (. %!; . ; / . -%!C-3; !
 : 3D. -5; . 5&!+ : . 56\$. %!B. 1: 1<!&#. !H1=!O. , +-&; . 5&!3C!A3; ; . -6. <H1=!O. , +-&; . 5&!3C!X: -\$6' &' -. <
 H1=!! 5D\$-35; . 5&+>?>3&. 6&\$35!X: . 56)<H1=!!J5&. -5+&\$35+>!"-+(. !A3; ; %%%\$35<+5(!&#. !I' -3, . +5!
 A3; ; %%%\$35G<+5&. -5+&\$35+>!\$5%&&' &\$35%B. 1: 1<!&#. !X%\$+5!O. D. >3, ; . 5&!9+5L<M-: +5\$N+&\$35!C3-!
 ! 6353; \$6!A33, . -+&\$35!+5(!O. D. >3, ; . 5&<!&#. !@3->(!9+5L<!&#. !H5&\$. (!g+&\$35%<+5(!&#. !@3->(!
 "-+(. !M-: +5\$N+&\$35G<!&#. !, -\$D+&. !%. 6&3-!+5(!+6+(. ; \$+!O-!4-+563\$%!\$%!+!; . ; / . -!3C!&#. !
 A35%3-&\$' ; !!

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"#. !; 3(. >+%%' ; . %!&#+&!6+, \$&+>%&36L%!+- . !C\$Z. (!+&!+5+&\$35+>). D. >!4\$-; %!+- . !+%%' ; . (!&3!/. !
 63; , . &\$&\$D. !+5(!; , >3)!6+, \$&+>+5(!+>/3-!&3!, -3(' 6. !: 33(%!+5(!%. -D\$6. %!%' /f. 6&!&3!635%&+5&!
 -. &' -5%!&3!%6+>. 1%! ?-3(' 6&!C-3; !(\$CC. -. 5&!-. : \$35%!+- . !; 3(. >. (!\$5!&. -; %!3C!, -3(' 6&\$35!+5(!
 &-+(. !' 5(. -!+5!X-; \$5: &35E

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#\$!

(+&+% . &!\$%!/ . 56#; +-L. (!&3!hSPk!+5(!\$56>' (. %!(. &+\$>. (!5+&\$35+>!\$5, ' &E3' &, ' &<!&-+ (. <!+5 (!C\$5+>! (. ; +5(!%&- ' 6&' - . %!C3-!PdS!63' 5&-\$. %!+5(!- . :\$35%!+6-3%%!d` !%. 6&3-%!@. !#+D. !' , (+&. (!&#. !&-+ (. ! +5(!5+&\$35+>!+663' 5&%(+&+!&3!hSh_1!

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"#. !/+%\$6!%36\$>!+663' 5&\$5: !+5(!&-+ (. !(+&+!+- . !%' , , >. ; . 5&. (!* \$&#!(+&+!35!&+-\$CC%!+5(!535E&+-\$CC! /+--\$. -%!C-3; !&#. !@3->(!"-+ (. !M-: +5\$N+&\$35w!\$5&. :-+&. (!(+&+/%. !+5(!C-3; !&#. !HgA"XOu@3->(! 9+5L!@J"=!(+&+% . &!X>!&+-\$CC!\$5C3-; +&\$35!#+%!/ . . 5!63563-(. (!&3!V"X?!; 3(. >!%. 6&3-%!*\$&#\$5!&#. ! D. -%\$35!PP!(+&+/%. 1%)!

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X: '\$+-\X1\A# . .>\$. D\81\A3-35: \11\8603' : +>>U1\^!D+5!(. -!8. 5%/-' : : #. \O1!BhSPQG1!"# . !
V"X?!O+&+!9+% . \O. -%\$35!PS!./O\$-%&'1'2&/3%&'45/-/6*5'7-%&8+*+<]BPG\PEhk1!U. &-\$. D. (!C-3; !
#&&, %\u* * * 1f: . +13-: u3f%u\$5 (. Z1, #, uf: . +u+-&\$6>. uD\$. *ukk!

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9. LL. -%\11\4-+563\$%\21!41!+5 (!U3f+%E

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#&!

!

g3&. W

P =6. 5+-\$3!PWX!aP!; \$>\$35!C. .!+%%. %%. (!35!A#\$5. %.!; +-\$&\$; .!&-+5%, 3-&!3, . -+&3-%!. +6#!&\$; .!+!%#\$, !5!&#. \$-!C>. &!B*#. . D. -!/' \$>&G!>+5(%!+&!+!H1=!!; 3-&!3C!. 5&-)!

h =6. 5+-\$3!hWX!aP1`!; \$>\$35!C. .!+%%. %%. (!35!; +-\$&\$; .!&-+5%, 3-&!3, . -+&3-%!B3C!+5)! 5+&\$35+>&)G!*\$&#!C>. &#!63; , -\$%. (!3C!A#\$5. % E/' \$&!%#\$, %!. +6#!&\$; .!+!A#\$5. % E/' \$&!%#\$, !5!&#. \$-!C>. &!>+5(%!+&!+!H1=!!; 3-&!3C!. 5&-)1!

_ =6. 5+-\$3!_WX!aP!; \$>\$35!C. .!. +6#!&\$; .!+!D. %%. >B3C!+5)!3-\$: \$5G!\$5!&#. \$-!C>. &!>+5(%!+&!+!H1=!!; 3-&!3C!. 5&-)!+%%. %%. (!35!; +-\$&\$; .!&-+5%, 3-&!3, . -+&3-%!B3C!+5)!5+&\$35+>&)G!\$C! A#\$5. % !%#\$, !3-(. -%!+663' 5&!C3-!h`e!3-!; 3-. !3C!&#. !3, . -+&3-!%&3&+!%#\$, !3-(. -%!C3-! (. >\$D. -)!3D. -!&#. !5. Z&!h]!; 35&##%1!

] =6. 5+-\$3!]WX>H1=!!: 33(%!; ' %&!/. !. Z, 3-&. (!35!H1=1EC>+: . . (<H1=1E/' \$&!%#\$, %</' &!; +)! / . !n+, , -3D. ([!C3-! Z, 3-&!35!+!535EH1=!!/' \$&!D. %%. >\$C!&#. !; +-\$&\$; .!3, . -+&3-! (. ; 35%&-+&. %!&#+&!+&!>. +%&!hSe!3C!H1=!!; -3(' 6&!; . -!). +-&!&#+&!&#. !3, . -+&3-! *\$>! &-+5%, 3-&!/)!%#\$, !* \$>!/ . !&-+5%, 3-&. (!35!H1=1EC>+: . . (<H1=1E/' \$&!%#\$, %1!

` =6. 5+-\$3%!PE]!-' 5!%\$; ' >+5. 3' %>)!

!

g3!+(f' %&; . 5&W"#. !-. ; . (!)!\$%!+, , >\$. (<+5(16+--\$. -%! (3!53&!; +L. !+5)!+(f' %&; . 5&%!&3! ; \$&\$: +&. !&#. !63%&1!

=3; . !+(f' %&; . 5&W"#. !-. ; . (!)!\$%!+, , >\$. (<+5(16+--\$. -%!%#\$C&!` e!3C!&#. \$-!H1=!!/3' 5(!&-+ (!&3! A+5+(\$+5!3-!8. Z\$6+5!, 3-&%!!

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!	g3!X(f' %&; .5&!)	=3; .!X(f' %&; .5&!)
!	P! h! _!	

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!	g3!X(f' %&; .5&!)					=3; .!X(f' %&; .5&!)				
!	P!	h!	_!]!	`!	P!	h!	_!]!	`!

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!	g3!X(f' %&; .5&!)					=3; .!X(f' %&; .5&!)				
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!	g3!X(f' %&; .5&!)	=3; .!X(f' %&; .5&!)
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%*

!	g3!X(f' %&; .5&!`!	=3; .!X(f' %&; .5&!`!
!	P! h! _!]!	P! h! _!]!

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%"

!	g3!X(f' %&; .5&!)					=3; .!X(f' %&; .5&!)				
!	P!	h!	_!]!	^!	P!	h!	_!]!	^!