





X, ',4! : K(!2,3,#&,\$.(-0H!?)\*\*BCH!!V#2+/.2#!-/!c+#.!1##'!8/%%#.-,'=#2!/!.h1#'2/.4//G!,.G!  
.#<'/2\$=#.\$#\_!Z,-<',5=W=.6!/'!.=4=5,-.6gi\_!;#--=.6!1#'2/. ,5H!J%#'\$,\$.!K/<'..5!/0!7=#-4=\$2H!B?AC! UAE  
U ]H

(

2,3,#k,\$.(-0(!N=<!k(!" ,R=2!Kc!?=.!+'#+C!" /\$-/'2^!#%+,-4=\$!0/\$<2!/ .!,6#.\$3!=2!+##\$#-R#G!,2!+/2=-R#53!,2!  
#%+,-4=\$!0/\$<2!/ .!0##5=.62!!

(

2,3,#k,\$.(-0

: ##-!#6<5, '53!S=-4!?\$<'!# .-53C!T< ./ '!0' / %!4=2- / '-\$ ,553!#b\$5<G#G!& , \$d6' / < .G!S4 / !=2! = .-# #2-#G! = .! 6', G< , -#!2-<G3!! ) \* )E)9H!

!

<=>\*=( ! =kk, ?, 0! ; , &#55=!1 #2=G# . - , 5!M\$4/5 , '2!1' / '6' , %!  
: ##-!#6<5, '53(!= .0 / '% , 553(!S=-4!2-<G# . -! = .-# #2-#G! = .! , \$ , '##'! = .! +23\$4/5/63m . #<' / 2\$=# . \$##!) \* )E / . 6 / = . 6H!  
!!

<=>\*=( ! =kk, ?, ! : \$Z , =!' ` b+5 / ' , - / '3!1' / '6' , %!  
: ##-!&=S##d53(!= .0 / '% , 553(!S=-4!0='2-E3# , '!2-<G# . -2!0' / %!4=2- / '-\$ , 553!#b\$5<G#G!& , \$d6' / < .G2!S4 / ! , '#!  
= .-# #2-#G! = .!6' , G< , -#!2-<G3(!) \* )E)A! , .G!) \* )AE) )H!

(  
<=>\*=( ! =kk, ?, ! : , 32! : = . / '-=3! : # . - / '!  
: #!% / . -453(!= .0 / '% , 553(!S=-4!< .G# '6' , G< , -#!2-<G# . -2! / 0!\$ / 5 / '(!) \* ALEAF! , .G!) \* AFE) \*!

(  
**2+#@+# / (A . \$@ , #>\$\*B(H, G+#\* ' , . \*(=C(6>B%E=k=?B0!**  
: # . - / '#G!0 / <'!< .G# '6' , G< , -#!-4#2-2!2-<G# . -2(!) ! , 2!+'=% , '3! , GR=2 / ! , .G!) ! , 2!# , G# '! ? -S / !0 = . -24#G!M+ '= . 6!  
) \*\*Ln! -S / !0 = . -24#G!M+ '= . 6!) \*\*FCH!! 1' =% , '3! , GR=2##!S / . ! ; / 'G / . ! J 55+ / -!1' =W#!?G#+ , '-%# . - , 5!4 / . / '2C! = . !  
M+ '= . 6!) \*\*FH!  
Y . G# '6' , G< , -#!#2# , '\$4! , 22=2- , . -2!?)E]m2%#2-#'(!X, 55!) \*\*@EM+ '= . 6!) \* AAC!

(

**A . \$@ , #>\$\*B(=C(6 , . . . Bk@+ . \$+( ! , , \* , #C=#( ! =? . \$\*\$@ , (: , '#=>%\$ , . % , Q(H, G+#\* ' , . \*(=C(6>B%E=k=?B0!**  
Y . G# '6' , G< , -#! = .G#+# .G# . -!2-<G3!+' / T#\$-2!?)!G<' = . 6! , \$ , G#%=\$!3# , '! ) \*\* ]m) \*\*Dn!)!G<' = . 6! , \$ , G#%=\$!3# , '! )  
) \*\*9m) \*\* ]n!A!G<' = . 6!M+ '= . 6mM<%%#') \*\*9C!

(  
**A . \$@ , #>\$\*B(=C(I=L+!( ! =? . \$\*\$@ , (: , '#=>%\$ , . % , (7+3=#+\*=#B(H, G+#\* ' , . \*(=C( : , '#=k=?B0!**  
> / . / '2!< .G# '6' , G< , -#!+' / T#\$-!X, 55!) \*\* )E!M+ '= . 6!) \*\* ]CH!  
Y . G# '6' , G< , -#!#2# , '\$4! , 22=2- , . -!?'@!4'2mS##dn!M+ '= . 6EX, 55!) \*\* )CH!  
M<%%# ' ! Y . G# '6' , G< , -#!V#2# , '\$4!1' / '6' , %!2-<G# . -!?' \*!4'2mS##dn!M<%%#') \*\*ACH!  
>=64!M\$4 / 5!M\$=# . \$#!#2# , '\$4!2-<G# . -!0' / %! / S , !8=-3^2!8=-3!>=64!2\$4 / 5!?'@!4'2mS##dn!X, 55!AFFFEM<%%# ' ! )  
) \*\*CH!!  
\ S / !2-<G# . -!#2# , '\$4! = . -# ' . 2!0' / %! ; #'% , . 3!?' \*!4'2mS##dn!X, 55!AFFFEM+ '= . 6!) \*\*CH!  
: #G=\$ , 5!2-<G# . -!G / = . 6!2<%%# ' ! #2# , '\$4!?' \*!4'2mS##dn!M<%%# ' !AFFFCH!

!

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**28 : 8 J0(- : H(- N - JH0!**

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: = .G(!7' , = . ! , .G!7#4 , R= / !+ / 2-G / \$- / ' , 5!0#55 / S24=+(!> , 'R , 'G!Y . =R# '2=-3(!) !3# , '2!&#6= . . . 6!K<53!) \*\*FH!  
8# ' -0=\$ , -#! / 0! " =2= . \$= / . (!7 / d!8# . -#!0 / !' \ # , \$4= . 6(!> , 'R , 'G!Y . =R# '2=-3(!) \*\*FH!  
Z / % = . , -#G!0 / !' : , 'f< , .G!J S , 'G!0 / !' ` b\$#+= / . , 5!JGR=2= . 6! , .G!8 / < . 2#5= . 6(!> , 'R , 'G!Y . =R# '2=-3(!M+ '= . 6!) \*\*L!  
? / . #! / 0!A)D! / . % = . ##2! , \$ / 22!-4#!Y . =R# '2=-3C!  
X#55 / S24=+' # \$ = + # . -(! : \$ " / . . #55!M<%%# ' ! [ . 2=-<#! = . !8 / 6 . --R#!Z#<' / 2\$=# . \$#!(Mf< , S!Q, 55#3(!8 J (!) \*\*9H!  
\ ' , R#5! J S , 'G!# \$ = + # . -(!U=2\$ / . 2= . !M3%+ / 2=<% / !' ` % / = / . (!) \*\*AH!  
X#55 / S24=+' # \$ = + # . -(! : \$ " / . . #55!M<%%# ' ! [ . 2=-<#! = . !8 / 6 . --R#!Z#<' / 2\$=# . \$#!( " , '-% / < -4!8 / 55#6#(!Z>(! )  
) \*\*AH!  
84 , + # '2! ; ' , G< , -#!M-<G# . -! \ ' , R#5! J S , 'G!# \$ = + # . -(!M / \$ -3!0 / ' !Z#<' / 2\$=# . \$#!( ) \*\* \*H!  
[ / S , m1 #2=G# . - , 5!X#55 / S24=+' # \$ = + # . -!AFFBE) \*\*A!?) \*E)D!0#55 / S24=+2!6-R# . !# , \$4!3# , ' , % / . 6! , 55!# . -# ' = . 6!  
6' , G< , -#!2-<G# . -2! = . !-4#!Y . =R# '2=-3CH!!  
7# . T , % = . !X' , . d5= . !M\$4/5 , '!AFFAE





h\4#'/5#'/0!-4#!,%36G,5,!=.!,.-4' /+/% /'+4=W=.6hi!!M3%+/2=<%!/.!-4#!,%36G,5,!=.!2/\$=,5!\$/6.==/.!(  
J%#'\$,!.!123\$4/5/6=\$,5!M/\$=#-3!,. .<,5!%##=-.6(!: ,3!)\*\*]#!

!

hZ#<',5!232-#%2!0/'!2/\$=,5!\$/6.==/.!0'/%!%/R#%#. -hi!Y.=R#'2=-3!/0!Z/'-4!8,'/5=. ,m" <d#!Y.=R#'2=-3!  
,<=-2%!'#2#,'\$4!\$#.-#'(!J+'-5!)\*\*]#!

!

hZ#<',5!232-#%2!0/'!2/\$=,5!+##\$#+-/.!0'/%!%/R#%#. -hi! ( !  
Y.=R#'2=-3!/0!1#..235R, .=(! : , '\$4!)\*\*]#!

!

hM/\$=,5!\$/6.==/.!0'/%!%/R#%#. -!2=-%<5=!#% /-/. (!+#'2/ .,5=-3(!, .G!,.-4' /+/% /'+4=W=.6hi!!  
(!"#+, '-%#.-!/0!123\$4/5/63(!> , 'R, 'G!Y.=R#'2=-3(!X#&'<, '3!)\*\*]#!

!

hZ#<',5!232-#%2!0/'!#\$/6.=W=.6!#% /-/.!, .G!+#'2/ .,5=-3!0'/%!%/R#%#. -2hi! !  
M3%+/2=<%(!7,55#-!X', .d0<'-(! ; #'%, .3(!K, .<, '3!)\*\*]#!

!

hN#2=/ .!2-<G=#2!/0!#% /-/.!#\$/6.==/.! .!4<%, .2\_!0,\$#2!, .G!&/G3!%/R#%#. -2hi!  
!!!1'=. \$#-/.!Y.=R#'2=-3!!!M#+-#%&#'(!)\*\*9#!

!



I.>\*\$\*\*\$=.>0!

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8A; J4 - ! 2(- :H(04J) I! 4(

(

<=>\*=(!=kk,?,l(K+3,kk\$(