



1@c(T4C(7, ' \$AC(! 4T4C(F "\$A\*C(L 4C([ (R/88+32AC(74\8; E=]4(S. , (H/W, #(/0(\*. , (H/, \*\$(K, 3AN(P. B(S, +% . , #A(
\_, , 2(\*/(Q, +2(H/, ' A(S/J, \*. , #4(951&6-) "%\$2&-7&+51&/441O#2; &7- "&' <=\$%(1 (>1"4=1\*+, ?14&-%&@1\$"% , #: A(
BC\E]C(<8Fe=4(
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T&&, 3C(! 4([ (1\$A, 3. +\*c(L 4(\\$3(G#/J#, AA]4(T"\* . /#\$3J(, W(R\$A\*/#\$, AN(K, +3\$3J(0#/' (U\$#&Ac(
\_, J/\*\$+\*\$/\$3A(/0(-%\$, 3%, (X2, 3\*\$\*\$, A(W\$\*. \$3(+32(+%/AA(R\$J. (-% . //&4(L +3" A%#G\*(0/#(6-) "%\$2&-7&+51&
@1\$"% , #: &8\*, 1%\*14.&(

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T&&, 3C(! 4(\\$3(G#/J#, AA]4(6\*\$&\$Z\$3J(D#J+3\$Z+\*\$/\$3+&(-, 3A, ' +`\$3J\*/(632, #A\*+32(S, +% . , #Ac(

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L//#\*. BC(-4C(R+##\$AC(! 4C(-. , #W//2C(! 4C(I cT3J, &/C(! 4C(T&&, 3(7, ' \$AC(! 4C(-\*+30/#2C(S4\8; E9C(TG#\$&&]4(951&  
)41&-7&+\$2R&O-?14&+-&4)=-"+&4+) (1%+&=\$"+, \*,=\$+, -%&, %&4\*, 1%+, 7, \*&O- (12, %: .(H+G, #(G#, A, 3\*, 2(+\*(\*. , (T'  
, #\$\$+3(12"%+\*\$ /3+&(Q, A, +#%. (TAA/%\$+\*\$ /3(T33" +&(L, , \*\$3JC(\$3(H. \$&+2, &G. \$+C(HT4(  
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T&&, 3(7, ' \$AC(! 4C(I cT3J, &/C(! 4C(H, 3", &C(P 4C([ (-, @, #+3%, C(-4\8; E9C(L +#%. ]4(' ?\$2) \$+, %: &+1\$\*51"&  
=-7144, -%\$2&(1?12=-O1%+&7- "&, O=21O1%+\$+, -%F&+1\$\*51" &41%41O\$R, %: &\$%(&, O=\$\*+4&-%&=\$\*+, \*1.&H+G, #(G#, A, 3\*, 2(+\*(\*. , (TQ-S(T33" +&( /30, #, 3%, C(\$3(H\$\*\*AM" #JC(HT4(  
(  
I cT3J, &/C(! 4C(L//#\*. BC(-4(T&&, 3(7, ' \$AC(! 4C([ (-, #W//2C(! 4\8; E9C(L +#%. ]4(! 4, %: &2- : &(\$+\$&-&\$%\$2; S1&  
+1\$\*51" &O=21O1%+\$+, -%&-7&d#+' , W/#` L\$2. : %1(&\*) """, \*)2) O.(H+G, #(G#, A, 3\*, 2(+\*(\*. , (TQ-S(T33" +&( /30, #, 3%, C(\$3(H\$\*\*AM" #JC(HT4(  
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-., #W//2C(! 4(L//#\*. BC(-4C(T&&, 3(7, ' \$AC(! 4C(R+##\$AC(! 4\8; E9C(L +#%. ]4(M1+H11%&+51&2, %14F&+51&"-21&-7&  
+1\$\*51" &2\$%: ) \$: 1&, %&&\* -OO) % , \*\$+, %: &, (1\$4&\$#-)+&4\*, 1%+, 7, \*&O- (12, %: .&H+G, #(G#, A, 3\*, 2(+\*(\*. , (TQ-S(T33" +&( /30, #, 3%, C(\$3(H\$\*\*AM" #JC(HT4(  
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951&"-21&-7&=- ( ) \*+, ?1&+\$2R&, %&4)=-"+, %: &4+) (1%+&=\$"+, \*,=\$+, -%&, %&4\*, 1%+, 7, \*&O- (12, %: .&H+G, #(G#, A, 3\*, 2(+\*(\*. , (TQ-S(T33" +&( /30, #, 3%, C(\$3(H\$\*\*AM" #JC(HT4(  
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4+)" \*+) "14&, %&I 1%?1"L\$ "1\$&5. : 5&4\*5--24.&H+G, #(G#, A, 3\*, 2(+\*(\*. , (T' , #\$\$+3(12"%+\*\$ /3+&(Q, A, +#%. (TAA/%\$+\*\$ /3(T33" +&(L, , \*\$3JC(-+3(d#+3%\$A%/C(! T4(  
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H#" 2, . /' ' , C(a4C(T&&, 3(7, ' \$AC(! 4([ (1\$A, 3. +#\*C(L 4\8; E=C(TG#\$&&]4(8- \*, \$2&\$% (&\*)2+) "\$2&\*\$=, +\$2&\$% (&  
\*\$=\$, +\$2&5. : 5&4\*5--2F&\$&(&, 771"1%+&4+-"; .(H+G, #(G#, A, 3\*, 2(+\*(\*. , (T' , #\$\$+3(12"%+\*\$ /3+&(Q, A, +#%. (TAA/%\$+\*\$ /3(T33" +&(L, , \*\$3JC(-+3(d#+3%\$A%/C(! T4(  
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g\$/3C(-4C([ (T&&, 3(7, ' \$AC(! 4\8; E=C(TG#\$&&]4(E", +, \*\$2&=1 (\$: - : ; F&>"1=\$", %: &+1\$\*51"4&-&\*1\$+1&4=\$\*14&+5\$+&  
4)=-"+&\$% (&4) 4+\$, %&4+) (1%+& "\$%47-"O\$+, ?1&?- , \*1.(H+G, #(0/#(A\*#"%"# , 2(G/A\*, #(A, AA\$/3(+\*(T' , #\$\$+3(12"%+\*\$ /3+&(Q, A, +#%. (TAA/%\$+\*\$ /3(T33" +&(L, , \*\$3JC(-+3(d#+3%\$A%/C(! T4(  
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T&&, 3(7, ' \$AC(! 4([ (O\$#A. 3, #C(74(\8; E8C(\_/@, ' M, #]4(hQ, % (&\$&H\$; &- "O\$R1&- %1F&/&\* \$41&4+) (: &-7&Y-) +5&  
>\$"+, \*, = \$+- "; &/ \*+, - %&3141\$ " \*5&H, +5, %&J - &' < \*) 414&8 \*5 - -24. (H+G, # (G#, A, 3\*, 2(+\* (\*, (T' , # \$%+3(  
T3\*. #/G/&/J\$%+&(TAA/%\$+\*\$ /3(T33" +&(L, , \*\$3JC(-+3(d#+3%\$A%/4(  
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O\$#A. 3, #C(74C(L, 32/Z+C(14([ (T&&, 3(7, ' \$AC(! 4(\8; E8C(\_/@, ' M, #]4(D\$==, %: &(, 4") =+, -%4&-7&\* -OO-%&  
41%41F&>2\$\*1LO\$R, %: &H, +5&4+) (1%+4&\$+&8-) +51"%&T, : 5&8 \*5 - -2. (H+G, # (G#, A, 3\*, 2(+\* (\*, (T' , # \$%+3(  
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O\$#A. 3, #C(74C(L, 32/Z+C(14C(T&&, 3(7, ' \$AC(! 4(\8; E8C(TG#\$&]4(>2\$\*1LO\$R, %: &H, +5&4+) (1%+4F&@1?1"\$: , %: &  
2- \*\$2&R%-H21 (: 1&+-&+"\$%47-"O&21\$"% , %: &, %&4 \*5 - -24. (H+G, # (G#, A, 3\*, 2(+\* (\*, (T' , # \$%+3(12"%+\*\$ /3+&(Q,  
A, +#%. (TAA/%\$+\*\$ /3(T33" +&(L, , \*\$3JC(H#, A\$2, 3\*\$+&(-, AA\$ /3C() +3%/" @, #C(74! 4(  
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-%. &\$%`F\_/, C(1@+FP //2C(T&&, 3(7, ' \$AC(! 4(\8; ; <]4(31%1H, %: &-)"&4=, ", +4F&951&" -21&-7&=-1+"; &, %&  
4)4+\$, %, %: &+1\$\*51"4U&2, ?14. (H#, A, 3\*+\*\$ /3(+\* (\*, (L+\*\$ /3+&( /30, #, 3%, (/0(S, +%, #A /0(13J&\$A. (T33" +&  
! /30, #, 3%, C(L+A. @&\$&&, C(S\_4(  
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8; E9FG#, A, 3\*( 5&/06/(%\*7%' %/&83\*9' ' #' (/ " (C(S#+%\$3J(! . +3J, A(\$3(\*, (13+%\*" , 3\*(/0(-%\$, 3%, (H#+%\*\$%, AC(63\$@, #A\$\*B(/0! /&/#+2/F7/" &2, #(HXN(1@, (L+3Z(  
H#/i, %\*(W\$\*. (HXC, Y+' \$3\$3J(+32(2, @, &/G\$3J(/2\$3J(A%, , ' , \*(/(" 32, #A\*+32(% . +3J, A(\$3(/3, (\*, +%, #Ac(0+%\$&\$\*+\*\$ /3(/0(A\*\* 2, 3\*Ac(, 3J+J, ' , 3\*(W\$\*. (A%\$, 3%, (G#+%\*\$%, A(\$3(+3(, &, ' , 3\*+ #B(%&AA#/'/' (W\$\*. \$3(+\* . #, , FB, + #C(&/3J\$\*" 2\$3+&(A\*\* 2B(  
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8; E8FG#, A, 3\*( 5&/06/(%\*7%' %/&83\*9' ' #' (/ (: \*; 100\$%+ %B(-\*\* 2B(/0(H#/i, %\*F7+A, 2(X3V" \$#B(-%\$, 3%, Cj(0" 32, 2(MB(L+\*\$ /3+&(-%\$, 3%, (d/" 32+\*\$ /3(\\_-d](\I QKFE; 8; 9; e]C(63\$@, #A\$\*B(/0! /&/#+2/F7/" &2, #(HXN(! . #A\*/G. , # (R+##\$AK(! /FHXAN(P \$&&\$+' (H, 3", &(+32(a/A, G. (O#+i%\$`(  
! /F2, @, &/G, 2(%/2\$3J(J" \$2, (\* /(+3+&BZ, (\*, +%, #(\$' G&, ' , 3\*+\*\$ /3(/0(G#+%\*\$%, A(+&\$J3, 2(W\$\*. (\*, (8; E8(L+\*\$ /3+&(Q, A, +#%. (! /" 3%\$&cA(\\_Q! ](Q"\$O1H-"R&7-"&ZLB[&8\*, 1%\*1&' ) \*\$+, -%(+32(\*, (J1<+&K1%1"\$+, -%&8\*, 1%\*1&8+\$%(\$"(4&\J K88](0/#(+(%&" A\*, #(#+32/' \$Z, 2(%/3\*# /&&, 2(\*#\$+&( ' , +A" # \$3J(\$' G+\*(/0(G#/i, %\*FM+A, 2(' \$22&, (A%. //&(A%\$, 3%, (% "##\$%" &"' (1@+&" +, 2(\*, +%, # (G#/0, AA\$/3+&(2, @, &/G' , 3\*(HI ](#, &+\*, 2(\* /&J K88(+32(\*, (Q"\$O1H-"R(T3+&BZ, 2(\*, +%, # (A, 3A, ' +`\$3J(/0(\*, (

d/##/W, 2(\*. , (\*#i, %\*/#\$, A(/0(E8(. \$J. (A%. //&(0, ' +&, A(/@, #(+(\*W/FB, +#(  
G, #\$/2(\*. #/"J. (A\*" 2, 3\*(+32(G+#, 3\*(\$3\*, #@\$, WAC(A%. //&(A\$\*, (A. +2/W\$3J(  
+32(%&+AA#/' ( /MA, #@+\*\$ /3A(  
! /F2, @, &/G, 2(\$3\*, #@\$, W(G#/\*%/&A(+32(G#/i, %\*(%/2\$3J(A%. , ' , (

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8; E=F8; E9(  
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7%'%/&83\* - +'' ' 6. (/'' (C(1' G/W, #(-. + `\*(X3\*, #3+\*\$ /3+&(1-X]C(7/' &2, #C(! D(  
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