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& Di H\YXf]j YZcf]bÚb]hY [fck h\ cb UÚb]hY d`UbYh \upVfci [\hi ghc ub YfUk \]W k]`` VY XYÚbYX Vm 1/4/1)H.5+1#1)+5/4%/,-&6#\$%&#/3(1/)H3.&#+.#,(*9# /, =#4%+.#(3&, .#4%&#\$8&.4+(, ;#T%/4#*+))#D%&#, &04# &3(1%V#\$(#.&% &.&,4#,(4#/.#/#.8==&,#&5&2-&,1H# D84#/.#3/24#('#4%&#L(, &#-2&/4#1/4/.42(3%&0]#('# %+.4(2H9#* &#, &&=#4(#(2+&, 4#(82.&):&.#)+F&#%&#K, -&)# ('#` +.4(2H;#D/1F*/2=.6#\$(#4%+.#&, =9#M#32(3(.&#/# 12+4+1/)#, : &.4+-/4+(, #+, 4(#4%&#%+.4(2+1/)#1(, 4+, -&, 1H# ('#%&#K, 4%2(3(1&, &9#/#L12+4+S8&#%/4#/F&.#%&#'(25# ('#/#3(..+D)/,.-2&..+(,60^B#\$%&#K,4%2(3(1&,&# '8, 14+(, .#(, #%&#(, 4()(-H#('#/, 4%2(3(1&, 42+.59##%&# 3%+)(.(3%H#4%/4#3(.+4+(,.#%85/,+4H#/.#D&+,-#.(5&4%+,-# /3/24#'2(59#/, =#/D(:&9#4%&.4#('#4%&#D+(.3%&2&6# \$%2(8-%#/#%+.4(2+1/)#12+4+\$8&#('#4%&#&3+.4&5+1#(2+-+, .# ('#/,4%2(3(1&,42+.5,)*+-%4#L.&3/2/4&#(849#2(5# 4%(,4+,-&,1H#4%/4#%/.#5/=.#*%/4#*&#/2&9#4%&# 3(..+D+)+4H#('#, (#)(, -&2#D&+, -9#=(+, -9#(2#4%+, F+, -# *%/4#*&#/2&9#=(9#(2#4%+, F60?#\$%&#/+5#4%&, #+.#(#D&44&2# 8, =&2.4/, =#%(*#%&#*! ''#\$%&'&(*).#1(, .42814&=#+, #(2=&2# 4(#.&&#%(*#*(8)=#D&#(4%&2*+.&6#N, #.(#=(+, -9#*&#(3&, # 4%(..+D+)+4H#('#/#D+(01(-,+4+:/33+,-#(#L&,=(*#

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\$%&2&'(2&9#*%+)&#%&H#5/H#&53(2/2+)H#+,.3+2&# 0&, (3%(D+/9#1(,4/-+(,#,/22/4+:&.#/2)4+5/4&)H# 1(558,+4H#'(25+,-;#L\$%&#.(1+/)#&03&2+&,1&#('# /#=+.&/.&9#4%&#+5/-&#('#1(558,+1/D+)+4H9#/,=#4%&# 5/4&2+/)+W/4+(, #('#+, 4&2=&3&, =&, 1&#%/4#1%/2/14&2+W&.# =&3+14+(,.#('#&3+=&5+1.#.8--&.4.#/,#&3+=&5+()(-H#('# D&)(, -+, -#%2(8-%#*%+1%#3&(3)+-%4#&03&2+&, 1&#%&+2# &5&2-&, 1&#/.#v/#3(38)/4+(, 6N0!^#I_H#32+5/2H#12+4+1+.5# ('#T /)=N.#* (2F#+.#%/4#4#+.#&..&, 4+/))H#/, 4%2(3(1&, 42+16# E%.&.#1(,4/-+(,#(#-&,&2/4&#/#1(.5(3()+4/,#:+.+(,# *%+1%#.823/..&.#, /4+(, /)#D(2=&2.#D84#+, 1)8=&.#(,)H# 4%&#%85/,6#E%%/))&, -&.#%%/2/14&2+W/4+(, #('# 1&24/+, #32/14+1&.#/.#32+5+4+:&9#D84#, (4#4%/4&-(2+&.# ('#' %+2+#+A4#/, =#6+A+7+B43)h Ya dY j YgUgfYjÚMhcbg cZUhYYc`c[mk \]WWWbÜUHYgdfc[fYqgk]h\X]qhubW '2(5#4%&#, (,0%85/,6#7824%&25(2&9#4%&#'(18.#(,#4%&# Î ci h/fYU_ï bUffUhji Y]XYbhjÚYgh,YYa Yf[YbW/cZ =+.&/.&#,4(#/#%85/,#3(38)/4+(,#/.#%(5&,4#*%&,# +4#D&1(5&.#/,#(DZ&14#('#+,4&2&.46#`(*&:&29#D+(1&,42+.5# =&5/, =.#/#=&1&, 4&2+, -#('#%&#%85/, 6#1 H#/+5#+.#(# &04&, =#T /)=N.#/, /)H.+.#(#%&#, (,0%85/,#/,=#.%(*# 1(,4/-+(,#/.#5/4&2+/)+W+, -#1(,,&14+(,.#D&4*&&,#4%&# %85/,#/,=#%&#D+(.3%&2&#,#%&#./5&#*/H#4#5/4&2+/)+W&.# 1(,,&14+(,.#*+4%+,#/#%85/,#3(38)/4+(,6

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$$\begin{split} & \text{M}, \# \text{''} \text{K} \text{K} \text{K} \text{C} (\text{DDH} \text{H} \text{E} \text{A}') \& \# \text{A}, = \#^{2} \& \text{A} \text{H}^{2} \# \text{U} \&^{*} 4 \left(, 9 \# \text{D} \&^{'} \left(2 \& \# \text{A} \& \text{H} \# \right)^{*} \left(8, = \& = \# \text{A} \& \# \right)^{*} \left(1 + 1 \right)^{*} \left(2, \# \text{A} & \& \# \text{A} \right)^{*} \left(2 & \# \text{A} & \# \text{A} \right)^{*} \left(2 & \# \text{A} & \# \text{A} \right$$

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E/H. & (&#LT %/4#%&H#1/, #, &: &2#F+))# * &, 4#(, #(#(2-/, +W&9# * &, 4#(, #(#(2-/, +W&0# 72(5#E/, #R+&-(#83#)(#1 /+, &9# +, &: &2H#5+, &#/, =#5+))9# T %&2&#* (2F&2.#.42+F&#/, =#(2-/, +W&#]hýth.YfY'nai Ň ÚbX`>cY`<]``#]hýth.YfY'nai Ň ÚbX`>cY`<]``* \$%+.#3 (&59#)+F&#Li +-%4#O3 (, #T /)=%&+50#.#/, +5/4&=# DH#/#2&:&2&, 1&# (2#%/.4#/, =#/#.428--)&# (2#%&# 8482&6# M#+.#, (4#&, (8-%# (2#`/H&.#4%/4#X(&#`+))#2&5/+, .#/)+:&# +, #%&5(2+&.#('#%&#)+:+, -9#%&5/+, .#/)+:&#(,)H# +, #%&#*(#%O//74)*('#%&#* (2F&2.6#M#*/.#, (4#&, (8-%# (2# `+))#%+5.&)'#&+4%&2Y#D&'(2&#%+.#=&/4%#%&#.&, 4#/#&)&-2/5# *%+1%#+.#('4&, #3/2/3%2/.&=9#LR(, N#I (82,9#d2-/, +W&0# fJ/))/%/, g6#\$%&#)(, -#5&5(2H#+.#(,)H#2&/)+W&=#*%&, #4#+.# 5/, +'&.4&=#/.#32/0+.6

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K.#581%#3(*&2#/.#LO, 1)&#E/55H#J/))#1 N))/# i 81+'&20#=&2+: & #2(5#%&#./5&#.(821&.#/.#(4%&2# 3()+4+1/)#3(&42H9#+4#/).(#-&, &2/4&.#/#(21&#/))#4.#(*, 6# T %&2&#+4#=+''&2.#2(5#.(5&#('#%&#(4%&2#3(&5.# =+.18..&=#+, #%&#&../H#+.#+4.#)/, -8/-&6#\$%+.#3(&5# &, -/-&.#*+4%#%+.4(2+1/)#&, .+(, .#, #)/, -8/-&##%/4#+.# +55&=+/4&9#:+.1&2/)9#/, =#=2/*, #2(5#%(55(, # 3/2)/, 1&#('#4.#/8=+&, 1&6#e()4/+2+, &#=&#J)&H2&N.#3(&42H9# '(2#&0/53)&9#+.#*2+44&, #32+5/2+)H#+, #/, #&)&:/4&=#)/, -8/-&# 4%/4#=+.1(, , &14.#4#2(5#+4.#/8=+&, 1&Y#4N.#*2+44&, #, #/# */H#%/4#,(#(, &#+, #%&#)/D(2#5(:&5&, 4#.3(F&6#E4(, &N.# 3(&59#DH#1(, 42/.49#+.#*2+44&, #+, #%&#:&2, /18)/2#.3(F&, # DH#4.#D)/1F#K5&2+1/, #/8=+&, 1&6#\$%+.#+.#1)&/2#2(5#%&#]^]^6

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X(, &.9#1 /2H#` /22+.6#*! O#&>+&/%. ' \$O}&I)5&#\$4%JV&''4(0*P=+4&=#DH#1 /2H#7+&)=#\/24(, 6#J%/2)&.#` 6#p&22#S#J (6%#J%+1/- (9#!'']@6#o\&, , #R+-+4/)# i +D2/2H9#=+-+4/)6)+D2/2H683&, , 6&=8<*(5&, <Z(, &.</84(D+(-2/3%H</84(D+(-2/3%H6%45)6#K11&...&=9##1 /H9#]^]^6

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N. 274#/, =#*5. 6>4#\$J*D(4%#2&32&.&, 4#. (1+&4+&.#+, # 83%&/:/)#'())(*+,-#4%&#=&/4%#('#/#5(,/21%6#M,#D(4%# 1/.&.9#%.823&2#.#/F&,#(#D&#/#.+,-8)/2)H#H2/,,+1/)# 28)&2#*%(.&5(:/)#*+))#2&482,#4%&#,/4+(,#4(#(2=&2#/,=# 3&/1&6#` (*&:&29##%&#.833(.&=#H2/,4.#('#D(4%#3)/H.#/2&# +, #/148/)+4H#, (4%+, -#5(2&#%/, #.H534(5/4+1#&032&..+(, .# ('#4%&+2#8, =&2)H+, -#. (1+/)#1 (, =+4+(, .6#CH#) ((F+, -#/4#% (*# 4%/.4#+.#2&32&.&,4&=9#4%+.#3/3&2#*+))#.%(*#4%/4#4%&.&# /2&#. (1+&4+&.#*%+1%#/2&#D8+)4#83(,9#/,=#5/+,4/+,&=#DH9# 3()+4+1/)#:+()&, 1&6#7824%&25(2&9#%+.#&../H#*+))#1(53/2&# 4%&.)/H.#*+4%#&/1%#(4%&2#/.#*&))#/.#(4%&2#*(2F.#+,# 4%/-+1#2/=+4+(,#(#.%(*#%/4#%&.)/H.#D&1(5&# 42/-+1#D&1/8.&#X%%/2/14&2.#/2(,.85&=#DH#%+.4(2+1# dfcWggYgXYÚbYXVmdc`]hJWJj]c`YbW'1 bXYfqfubX]b[4%)/H.#(#(3&2/4&#, #%&.&#&25.#5/F&.#4#1)&/2#%/4# D&1/8.%)&2.#/2*&/4&=#/.#D&+, -#/#32(D)&5#+, # /, =#('#%&5.&):&.9#%, =&2)H+, -#1(, =+4+(, .#('#%&.&# . (1+&4+&.#/2&#, &: &2#1%/, -&=9#/, =# (2#4%+.#2&/.(, #4%&# 3)/H.#/F&#(,#/#1H1)+1/)#1%/2/14&29#*%&2&##%(,=+4+(,.# /4#4%)/HN.#&, =#/2&#'8, =/5&, 4/))H#4%&#./5&#/.#4.# D&-+, , +, -6#J (, .&S8&, 4)H9#*/, #8, =&2.4/, =#4%.& 3)/H.#(#D&#/#12+4+S8&#('#/84%(2+4/2+/,#:+()&,1&#/,=#4%&# 1(53)+1+4H#('#+, =+:+=8/).#+, #5/+, 4/+, +, -#42/-+1#.H.4&5.6

M, 4&-2/)#/ (#%&. &#.4(2+&.#+.#/#.4/4/+, 4/+, &=# DH#:+()&, 1&6#M, #D(4%#3)/H. #%&#.4/4&#+.#.%(*, #&/2)H#+, # 4%)/H#/ (#D &=+1/4&=#(, #:+()&, 1&9#/, =#(2=&2#+.# &+4%&2#5/+, 4/+, &=#(2#2&.4(2&=#%2(8-%#46#`(*&:&29#+, # &/1%#1/.&#:+()&, 1&/4&.#%&#-2(8, =*(2F#(2#5(2&# :+()&, 1&9#.(#(2=&2#%8.#(D4/+, &=#+.#(,)H#A&53(2/2H6# M, #Ld, #e+()&, 1&90#`/, , /%#K2&, =4#5/F&.#4#1)&/2#%/4# +, .4/D+)+4H#+.#/#, &1&../2H#'&/482&#('#:+()&, 1&#D&1/8.&;

\$%&#: &2H#. 8D.4/, 1&#('#:+()&, 4#/14+(, #. #28)&=#DH# 4%&/, .0&, =#1/4&-(2H9#*%(.%+&'#1%/2/14&2+.4+19#+'# /33)+&=#(#%85/, #/''/+2.9#%/.#/)*/H.#D&&, #4%/4#%&#&, =# +.#+, #=/, -&2#('#D&+, -#(:&2*%&)5&=#DH#%&/, .#*%+1%#]h^ g]ÚYgUbXk \]W UFY bYYXYX hc fYUW]H'G]bW h Y' &, =#('#%85/, #/14+(, [1/, #, &:&2#D&)+/D)H#32&=+14&=9# 4%&/, .#8.&=#(#/1%+&:()+4+1/)#-(/).#/2(2&#('4&, # 4%/, #, (4#('#-2&/4&2#2&)&:/, 1&#(#%&#'8482&#* (2)=#%/, # 4%&#+, 4&, =&=#-(/).6#K2&, =4#!^kg

\$\%8.9#4\%&#: /2+(8.#&, =.#*\%+1\%#4\%&.)/H.\#1\%/2/14&2# %(3&#\(#/1\%+&:&#DH#:+()&, 1&#/2&9#/.#*+))#D&#.\%(*, 9#)&..# +53(24/, 4#\(#4\%&#(841(5\%/, #4\%&#:+())&, 4#5&/, .9#*\%+1\%# 4\%2&/4&, #/)*/H.#\(#1(, .85\%&#&, =.6#

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i ((F+, -#/4#%&#.811&..+(, #('#28)&2.9#* &#.&&#%/4# :+()&, 1&#=(&., N#2&.4(2&#(2=&29#2/4%&2#4#+53(.&.#/# 1H1)+1/)#.4281482&#(, #%)/H.6#i &4#8.#D&-+, #*+4%#%&# 28)&#('#\2+, 1&#`/5)&4N.#'/4%&29#`/5)&4#%&#R/, &6# ⊤%/4#)+44)&#* &#)&/2, #('#%&#F+, -N.#28)&#+.#2&)/4&=#+, #%&# 2&5&5D2/, 1&.#('#`(2/4+(#+, #6!6#`&#*/.#/#1(, S8&2(2# *%(#&03/, =&=#R&, 5/2FN.#28)&#%2(8-%#*/29#/.#

%&,#%&#F+))&=#p+, -#7(24+, D2/.6#p+, -#`/5)&4#/.# gc XYÚbYX Vmk UFZLFY]b~]ZYžh\Uh]b XYUh\ \Yk YUFg L4%&#: &2H#/25 (2#%&#%/=#(, #<#T %&, #%&#%&#/5D+4+(8.# Bcfk Lm/k/a VLh/XI TM%) - !* \$Ł"H\YfYZcfYth,YXYÚb]b['&/482&#('#`/5)&4#4%&#R/, &9#/, =#DH#&04&, .+(, #4%&# R/, +.%#.4/4&9#+.#:+()&, 1&6#J)/8=+8.#.+5+)/2)H#D&-+, .#%+.# 28)&#*+4%#4%Ɇ=&2#('#%+.#D2(4%&29#/, =#)/4&2#3)(4.#4(# %/:&#`/5)&4#F+))&=#+, #(2=&2#(#5/+, 4/+, #4%&#.&182+4H#('# %+.#28)&6#\$%+.#('#1 (82.&#.&4.#4%&#.4/-&#' (2#4%&:&, -&# 3) (49#/.#*&))#/.#4%&#=&/4%.#('#G(.&, 12/, 4W9#1 8+)=&, .4&2, 9# /, =#i /&24&.6#7824%&25(2&9#+, #X%&#D)((=D/4%#('#@6]9# h Y a Yubd YbX h fYuhh Uh5fYbXh XYbh UYX Vta Yghc '28+4+(, 6#\$%&#.833(.&=#&, =.#* &2%/+, 4&, /, 1&#('# 3()+4+1/)#(2=&2#f+, #J)/8=+8.N.#1/.&q9#(2#%&.4(2/4+(, # ('#5 (2/)#(2=&2#f+, #`/5)&4N.#1/.&q#D84#4%&.&#/2&#&, 4+2&)H# .8D.85&=#DH#:+()&,1&6#\$%&#(,)H#.8+4/D)&#%&+2#(#4%+.# :+()&, 4#* (2)=#. #%&#I(8, -#7 (24+, D2/. #*%(9#(, #%+. #(*, # \$8&.4# (2#2&:&, -&9#%/.#D2(8-%4#%+.#/25H#4(#R&, 5/2F6# \$%+.#+.#*%H#`/5)&49#1(,.1+(8.#('#%%/+,#('#:+()&,1&# h\uhXYUbYg8YbaUf_Nij\]chcfnžii chg\]cyxn]b[VfYUh\cj 4(#: (4&#'(2#7 (24+, D2/.#/.#4%&#, &04#28)&2#('#R&, 5/2F6# \$%8.#%)/H#&, =.#*+4%#4%&#&..&, 4+/)#:+()&, 4#.4281482&# ('#28),1%/,-&=9#/,=#*+4%#/,(4%&2#*/2)+F)&2# 4/F+, -#%&#%2(, &6

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i ((F+, -#/4#*5.6>4#\$*#*+4%+, #%(, 4&04#('#4.#.811&..+(, # ('#28)&2.9#*&#.&&9#/.#*+4%#/*N.274*, ##.4281482&#('# /84%(2+4H#*%+1%#5/+, 4/+, .#+4.&)'#DH#:+()&, 1&6#K).(#)+F&# *N.274*, ##%&#.4281482&#('#*5.6>4#\$*#.#&..&, 4+/))H#1H1)+1/)Y# +4#D&-+, .#+, #/#3)/1&#('#3()+4+1/)#8, 2&.49#/, =#&, =.#*+4%# /#)((5+, -#%2&/4#('#%&#./5&6#K4#%&#(84.&4#('#K14#!9# R8, 1/, #..#/4#*/2#*+4%#/#2&D&))+(, #/-/+, .4#%+.#12(*, 6# A UVVYh]gcbYcZhYdf]bV]dYU[\hYfg]b`8i bVVbfvj /25H#/, =#..#1&)&D2/4&=#/.#(, &#('#%(.4#:+()&, 49#/.# *%&, #%&#J/34/+, #2&)/4&.#%/4;

7 (2#D2/:&#I /1D&4%h*&))#%&#=&.&2:&.#%/4#, /5&h R+.=/+, +, -#7 (248, &#*+4%#%+.#D2/, =+.%&=#.4&&)9 T %+1%#.5 (F&=#*+4%#D) ((=H#&0&184+(, 9 i +F&#:/)(2N.#5+,+(,#1/2:&=#(84#%+.#3/../-&6# f*5.6>4#\$)*!6]6!k0!''g : fca ħ\YÚfchUMik YcjYYħ\LhicfXYf?]bħ]qiccVJY/hnă\Lgi

+, #R&, 5/2F#8, =&2#%&#&)=&2#~/5)&49#+.#5/+, 4/+, &=# 4%2(8-%#:+()&,1&6#I /1D&4%#4%&,#D&1(5&.#4%&#F+,-# *%&, #%&#/, =#i /=H#I /1D&4%#582=&2#R8, 1/, 6#72(5# 4%+.#3(+, 4#I /1D&4%#+.#182.&=#*+4%#4%&#F, (*)&=-&#('# 4%.823&29#4%&#+,4+5/4&#F,(*)&=-&#('#%(*#'2/-+)&# .(:&2&+-,4H#+.#/,=#%(*#&/.+)H#/,(4%&2#1(8)=#2&32(=81&# 4%.823&2N.#(*,#/14+(,.6#M4#+.#2(5#%+.#3(.+4+(,# ('#F, (*)&=-%/4#1 /1D&4%#D&1(5&.#3/2/, (+=#/, =# 2&1 (-, +W&. #4%/4#4%&#. 4/D+)+4H#('#%+. #2&+-, #2&)+&. #(, #4%&# 582=&2#('#4.#32(3%&.+&=#%2&/4.9#, /5&)H#c/, S8(#/, =# %+.#.(,h32(3%&.+&=#(#D&#% (-&,+4(2#('#/#)+,&#('# F+, -.#, #!6B6kAh#/, =#I /1=8''#/, =#%+.#'/5+)Hh*%(5#%&# *+41%&.#*/2,#1 /1D&4%#/-/+,.4#+,#?6!6C^0C]6#\$%8.9#)+F&# R8, 1/, 9#I /1D&4%#1 (5&. #(#2&)H#(, #:+()&, 1&#(#5/+, 4/+, # 4%&#.4/D+)+4H#('#%+.#28)&6#7+, /))H9#I /1=8''#F+)).#I /1D&4%# /,=#R8,1/,N.#.(,#I/)1()5#.#2&.4(2&=#(#%&#%2(,&6# d.4&,.+D)H#E1(4)/,=#1/,#,(*#2&482,#4(#3&/1&9#D84##%&2&# 2&5/+, .#%&#%2&/4#('#c/, S8(N.#.(, 9#7)&/, 1&6#K11(2=+, -# 4(#32(3%&1H9#7)&/,1&#(2#%+.#%&+2.#*+))#/F&#%&#%2(,&# ('#E1(4)/, =9#5&/, +, -#%/4#%&/1&#(D4/+, &=#DH# I /)1()5#.#(,)H#4&53(2/2H9#/,=#%&N.#=&.4+,&=#4(#'/))#(#/# 2&D&))+(,9#8.4#)+F%&#(,&#*%+1%#D&-/,#4%)/H6

=h]gk cfh ghcdd]b[Zcf Ua ca Ybhrc VYhhrf XYÜbY *%/4#.#5&/, 4#*%&, ##./H#%/4#%)/H#&, =.#*%&2# D&-+, .6#\$%)&2.#1%/, -&9#D84#%&#' (25#('#28)&#=(&.# , (46M, #&/1%#, .4/, 1&#.#/#28)&2#*%(#5/+, 4/+, .#(2=&2# 4%2(8-%#:+()&, 1&9#*%/4#*+-%4#1/))[/84%(2+4/2+/, 6# T &#=(, IM#.& (24+, D2/.#(2#1 /)1()5N.#28)&9#D84#*&#.&&# &, (8-%#(#-&4#/#.&, .&#('#%&#F+, =#('#28)&2.#%&H#5+-%4# VY''@cc_]b[cb: cff]bVfUg@ufa nă< Ua YhfYÛYMag

T +4, &...#%+.#/25H#('#.81%#5/..#/, =#1%/2-&9 i &=#DH#/#=&)+1/4&#/, =#A&, =&2#32+, 1&9 T %(.&#.3+2+4#*+4%#=+:+, &#/5D+4+(, #38''&= I /F&.#5(84%.#/4#%&#, :+.+D)&#&:&, 49 P03(.+, -#*%/4#+.#5(24/)#/, =#8, .82& \$(#/))#%/4#(248, &9#=&/4%9#/, =#=/, -&2#=/2&9 P:&, #(2#/, #&--.%&))6#??6!6?kQ@]g

T %/4# /5)&4#/=5+2&.#%&2&#+, #7 (24+, D2/.#+.#%&#F+, =# ('#1%/2/14&2#*+4%#*%+1%#4%&#)/4&#F+, -#*/.#=&.12+D&=9# 4%/4#('#/#5/24+/)#1(, S8&2(2#*%(#-(&.#(#*/2#&:&, #'(2# 4%&#./F&#('#L/, #&--.%&))06#I +: &, #4%+.#=&.12+34+(, 9#* &# 5+-%4#:&2H#*&))#.833(.%/4#%&#*(8)=#D%&#./5&# . (24#('#/84%(2+4/2+/, #28)&2#/.#4%&#&)=&2#`/5)&46#i +F&# 7(24+, D2/.#+, #K14縆9#I/)1()5-捲, 4&2.#%&#/14+(, #/4# 4%&#%&/=#('#/, #/25H9#1/.4+, -#%+5.&)'9#=&3&, =+, -#(, # 3&2.3&14+: &9#/.#&+4%&2#4%&#/:&, -+, -#%&2(#(2#/, (4%&2# i gi fdYf"K \Unža cfYh\Ub'Ubnh\]b[žXYÚbYg\]gfi `Y` +.#4%&#)((5+, -#32&.&, 1&#('#7)&/, 1&6#K, H#/, /)H.+.# ('#*5.6>4#\$*N./1(,1)8.+(,#58.4#3/H#%&&=#4(#%+.#(,&# =&4/+)#D&1/8.)&/,1&N.#+53(24/,1/,,(4#D&# (:&2.4/4&=6#M#+.#4%%2&/4#('#c/, S8(N.#)+, &#*%+1%# Úfondi olyga UWYh Zfca VY|b[Ubi oj fdYfhc D&+, -#/#H2/, 49#*%+1%#%&#=&1)/2&.#*%&, #%&#./H.#_[\$ (#5/F&#%&5#F+, -.h4%&#.&&=.#('#c/, S8(#F+, -.q#<# G/4%&2#%/, #. (9#1 (5&# /4&#, 4(#%&#)+.49#<#K, =#1%/53+(, # 5&#(#%N844&2/, 1&qO#FB6!6C^QC]q9#/, =#%+.#./5&#%2&/4#

K.#/#2&.8)49#%/-&=H#+53)+1/4&.#/))#('#4.#1%/2/14&2.9# %&2(#/, =#:+))/+, #/)+F&9#+, #%/+, 4&, /, 1&#('#%*/-+1# 5&4/0, /22/4+:&9#/, =#+, #/, H#42/-&=H#*%+1%#. (8-%4#428&# 5(2/)#2&.4(2/4+(, 9#%&#%&2(#* (8)=#%/:(#=+2&14)H# -2/33)&#*+4%#%+.#5&4/0, /22/4+:&6

=b h Y U b U u U u g g k Y g Y h u h N. 274 h = #5. 6>4#\$ h : &#/4#/%&+2#1&, 4&2. #/%&#./5&#=2+:+, -# %+.4(2+1/)# (21&.9#/%&#./5&4/0, /22/4+:&#, #*%+1%# /))#/%/24+18)/2#, /22/4+:&.#('#/%&+2#1%/2/14&2.#/2&# (2-/, +W&=#/, =#2&)/4&=#(#(, &#/, (4%&26#M#+.#/#, /22/4+:&#('# :+()&, 1&9#3/24+18)/2)H#3()+4+1/)9#/84%(2+4/2+/, #:+()&, 1&9# k]W [] Y g f g Y h c g Y V V V h f U b g V i h g b Y i Y f (:&24%2(*, #*+4%#%&5#D&1/8.&#&/1%#:+()&, 4#2&:&2./)#+.# 28.4#/, (4%&2#82, #, #%&#:+()&, 4#1H1)&6# /:+, -#=&:&)(3&=# 4%+.#:+.+(, #('#N. 274#)/, =#5.6>4#\$)* +-%49#+, #%&#

K2&, =49#`/,,/%6#Ld,#e+()&,1&06#-%+(4()&1)#\$4)F4'0>7+6, /21(824#c2/1&#s#J(69#!"C]6

1+2/2=9#G&, w6#,~/5)&411.#R8))#G&:&, -&06#*5. 08%JH#4%.%0)-\$.%.%6#%(JN. 274#,b*e=+4&=#DH#`/2()=#c)((59#J%&).&/#`(8.&9#336#[kK0!A@6

I 2&&, D)/449#E4&3%/, 9#T /)4&2#J (%&, 9#E8W/, , &#I (...&49#X&/, #P6#` (*/2=9#p/4%&2+, &#P+./5/, #I /8.9#/, =#I (2=(, #I 1I 8))/, 9#&=+4(2.6#*E\$4)* @*&%#&`'JJ\$. ?4(`4.%40*}B2=#&=69#U (24(, 9#]^!k6

d2-&)9#E4&3%&,6#L*5.6>4#\$/*,=#%&#K,4+1#G(8,=0#*L+77+.2)J\$.?4('4.%H\$5.6>4#\$/*,&=+4&=#DH#G(D&24#E6#)+()/9#U(24(,9#336#]@@0]C^6

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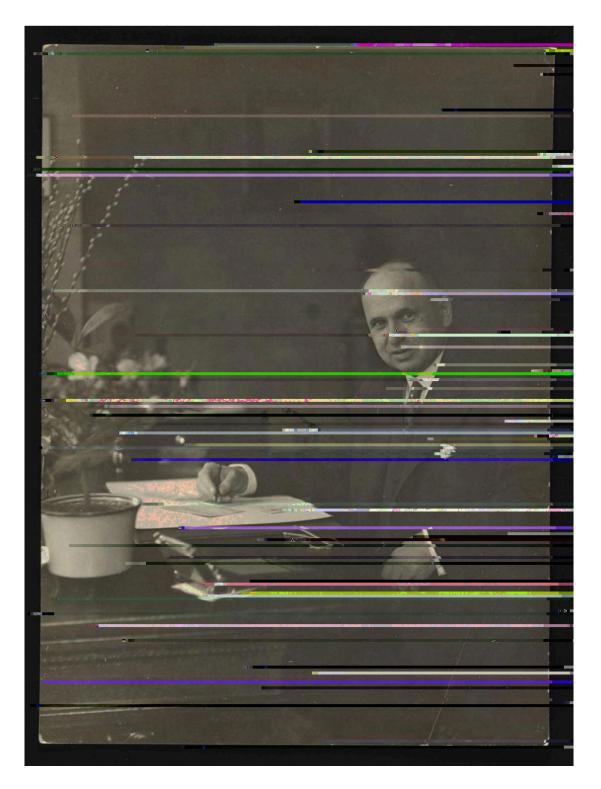
K332(0+5/4&)H#k^^9^^^#3+&1&.#('#/24#*&2&#)((4&=#DH# 4%&#U/W+.#=82+, -#%&#E&1(, =#T (2)=#T /26'#T %+)/, H# ('#%&.&#* (2F.#*&2&1(:&2&=#=82+, -#/, =#/'4&2#%&#*/29# \2(3&2#2&.4+484+(, # (2#X&*+.%#:+14+5.#1/, #D(,.+=&2&=# /.#.&)&14+:&#A(#(,)H#/#&*# (248,/4&#+,=+:+=8/).#*+4%# gi ZÚMWbhfYgci fVVg' G&.4+484+(,#2&5/+,.#%&/:+)H#=&D/4&=6#K11(2=+,-#A(#



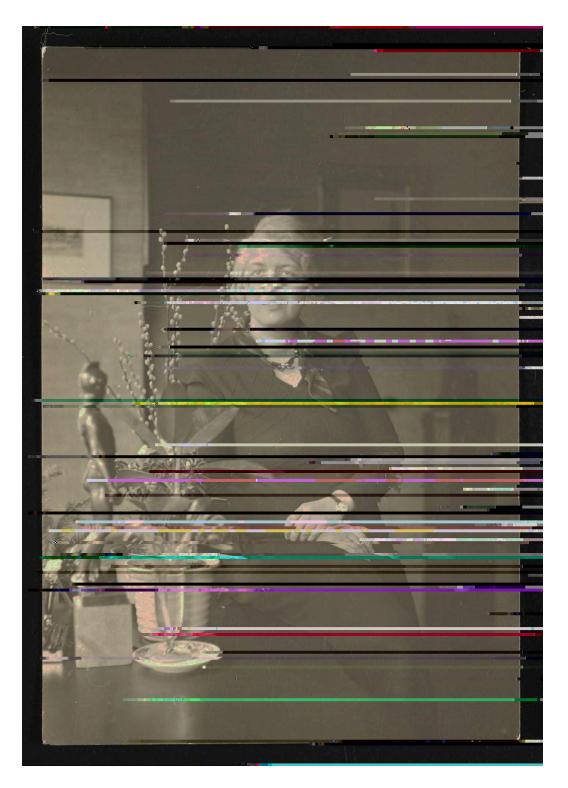
$$\begin{split} \mathsf{M5/-8\#!}; \#\mathsf{K}, \ \#1+21/\#! \ \mathsf{''B^*}, \ \#3\% (4(-2/3\%\#('\#\%\%\#+14(2\#/5+))\#**+4\%\#2\%)/4+: \&. \ \#(2\#'2+\&, =.; \#J/2) \#+14(2\#4(3\#2)/4); \\ 2+-\%4gg \#\mathsf{P}). \ /\#+14(2\#4(3\#3)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&, =.; \#J/2) \#+14(2\#4(3\#2)/4); \\ +2+\%4gg \#\mathsf{P}). \ /\#+14(2\#4(3\#3)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&, =.); \#J/2) \#+14(2\#4(3\#2)/4); \\ +2+\%4gg \#\mathsf{P}). \ /\#+14(2\#4(3\#3)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&, =.); \#J/2) \#+14(2\#4(3\#2)/4); \\ +2+\%4gg \#\mathsf{P}). \ /\#+14(2\#4(3\#3)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&, =.); \#J/2) \#+14(2\#4(3\#2)/4); \\ +2+\%4gg \#\mathsf{P}). \ /\#+14(2\#4(3\#2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4) \#+14(2\#2)/4+: \&. \ \#(2\#2+\&2)/4+: \&. \ \#(2\#2+$$



M5/-&#!^;#K#!"B"#3%(4(-2/3%#('#\&4&2#I /0#+, #c&2)+, #32+(2#)(#%+. #&5+-2/4+(, # 4(#E%/, -%/+6#` &#*/.#, +, &4&&, #/4#%&#+5&6



$$\begin{split} \mathbb{M}5/-\$^{\#}] \ ; \# \mathbb{K} \# \ ''] \ '' \# 3\% (4(-2/3\%\# ('\# J/2) \# e + 14(2\#, \#\% \& \# e + 14(2\#/5 +) \mathbb{H} \# / 3/245\&, 4\#, \# c \& 2) +, 6\# \% 2\& \& \# 5 + ... +, -\# 3/+, 4+, -. \# / 2\& \# / +, 4) \mathbb{H} \# = \& 3 + 14\& = \# / , -+, -\# (, \#\% \& \# * /)) 6 \end{split}$$

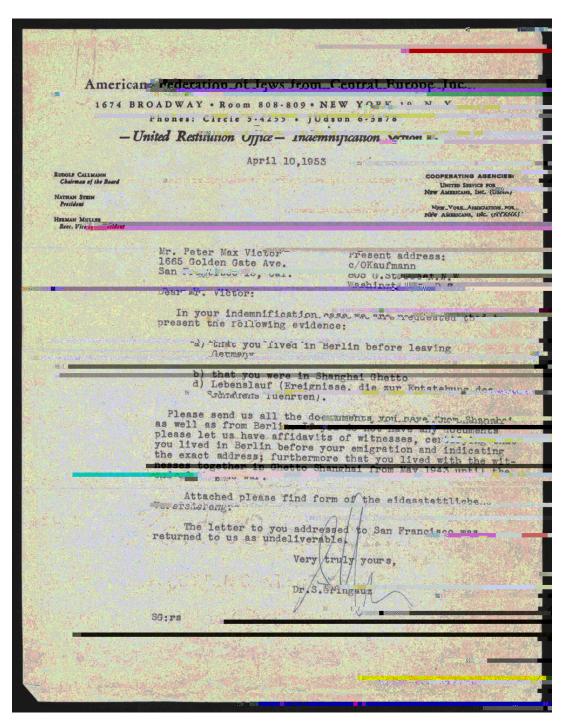


$$\begin{split} \mathsf{M5/-\&\#B;\#K\#''} = \mathsf{M5/A} & \mathsf{M5/A} = \mathsf{M$$

DYNYFAU ÚfghcdYbYXQ]gfYghh hjcbQMbY]bU%)&)&44&2#4 (#4%&#ogd#ao, +4&=#G&.4+484+(, #d2-/, +W/4+(, b9# 2&\$8&.4+, -#/..+.4/, 1&#*+4%#.&:&2/)#1)/+5.#4%/4#%&#*+.%&=# hc ÚY" 5hh Yha YžDYhYFA U ZYh Yd YggVVVU gYcZ 4%&#)/1F#('#/:/+)/D)&#.833(24#+, #T/.%+, -4(, #'(2#4%&# 1(53)+1/4&=#'(25#32(1&..#/, =#D&1/8.&#('#%+.#.+, 1&2&# , &&=#' (2#5 (, &H6#\, #&0/5+, +, -#/#)&44&2#=/4&=#K32+)#!^^4%9# !"@B#D&4*&&,#\&4&2#I /0#/,=#4%�Gd9#/#2&S8+2&5&,4# ('#32(('# (2#5/44&2.#, (4#, (25/))H#=(185&, 4&=#*/.# 2&3&/4&=)H#2&S8&.4&=6#7 (2#\&4&2#I /0N.#1/.&9#4%&#oGd# 2&\$8&.4&=#&:+=&,1&#(#32(:&#%/4#\&4&2#1 /0#)+:&=#+,# C&2)+, #D&'(2&#)&/:+, -#I &25/, H#/, =#4%/4#/#*+4, &...9#*%(# k LgUgc]b h\YG\Lb[\U] [\YhncžhYd]UYX h\LhDYhYf $A U k u_{f} b h Y G u_{f} (Y h_{c} f_{a} U Y k'_{H} Y c Z U W)$ /). (#2&S8&.4&=#4%&#=&4/+).#('#%+.#)+'&#.4(2H9#+, 1)8=+, -# 4%&#&:&,4.#%/4#)&=#(#%&#L=/5/-&60^k#T%+)&#%&.&# 4%2&&S8+2&5&, 4.#.&&5&=#.42/+-%4'(2*/2=9#\&4&2# I /0#.428--)&=#(#32(:%&#.5/))&2#=&4/+).#*+4%+,#&/1%# 1/4&-(2H6#\$%2(8-%(84#4%&#)&44&2.#D&4*&&,#\&4&2#I /0# /,=#4%&#oGd9#\&4&2#I /0N.#+53/4+&,1&#/,=#=&.3&2/4+(,# 4(#.&44)&#%+.#1/.&#D&1(5&.#, 12&/.+, -)H#/33/2&, 46#/, # !"@"9#R26#7/D+/, #('#4%&#oGd#2&S8&.4&=#'824%&2#32(('# ('#\&4&2#I /ON.#)+'&#+, #C&2)+, #/, =#4%&#E%/, -%/+#-%&44(9#4(# *%+1%#\&4&2#I /0#2&.3(,=&=;

\$%+. #2&. 4+484+(, #1/. &#*/. #. 4/24&=#+, #! ''@C9#/, =# 4%&2&#/2&#+5&.9#*%&, ### &&)#H (8#/2&#, (4#2&/))H#2H+, -#A (# 2&32&. &, 4#5&#/. #H (8#.% (8)=6#N'#H (8# &&)9#%/4#H (8#x#(2#

BA#_#`(,(2.#X(82,/)#]^]!



=a U Y%. H\Y1 FC fYei YghXthUhDYhYf A U WzbÚfa thYXYhUj`gicZ\]g`]Z/thfci [\k]hbYggi 4&.4+5(, +&.6)

 $\label{eq:started_st$

 $K \ T DYHYFAU ZUWX a UbmX]ZUW HYgZfca h.Y$ 1)/+5/,4#.+=&#('#2&.4+484+(,#1/.&.9#58.&85.9#/21%+:&.9# /,=#/814+(,#%(8.&.#1(,4+,8&#(#/1&#%&#=+)&55/#('# D&1(5+, -#2/, .3/2&, 4#(2#32(4&14+, -#4%&+2#2&384/4+(, 6# I 8.&85.9#/21%+:&.9#/, =#/814+(, #%(8.&.#3)/H#F&H# 2()&.#, #D(4%#2&1(:&2+, -#/24#/, =#1(5+, -#(#&25.#*+4%# 1822&, 4#(2#%+.4(2+1#1())&14+(, .#1(, 4/+, +, -#S8&.4+(, /D)&# /24+'/14.6#\$%&#/11&..+D+)+4H#('#%&.&#+, .4+484+(, .#.&2:&.# /.#/#:+4/)#1(53(,&,4#(2#2/1+,-#4% (:&,/,1&#('#/# 3+&1&#(2#8, =&2.4/, =+, -#*%/4#+&.#%(.&#+, .4+484+(, .# %/=#4(#4%&#\$%+2=#G&+1%6#d84#('#'&/2#'(2#4%&#./'&4H#('#/# 58.&85#(2#/814+(, #%(8.&N.#2&.3&14&=#2&384/4+(, 9#*&*# +, .4+484+(, .#1%((.&#(#38D)+1)H#1(5&#(2*/2=#/D(84# 4%&+2#%+.4(2+1#1())8.+(, #*+4%#4%&#U/W+.#(2#*+4%#4%&#/24# +, #1%&+2#1 ())&14+(, . #1%/4#* &2&#)+F &)H#.4()&, #=82+, -#1%&# E&1(,=#T (2)=#T /26M, #1/.&.#*%&2% (:&,/,1&#('# hYU Wijcb \ci qYcf cZqdWWUWLfhk cf_g]gbch_bck bž 58.&85.#/, =#/814+(, #%(8.&.#('4&, #=&, H#/11&...#(# 2&.&/21%&2.#(#/:(+=#/,H#8,*/,4&=#38D)+1+4H#(2#3(4&,4+/)#)&-/)#=+.384&.[6

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$$\begin{split} & |||| F = \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} + \frac{1}{$$

U/W+0) ((4&=#/24#D&+, -#=+.1(:&2&=#+, #%&+2#3(..&..+(, # 4(=/H6#E4(H&#&O3)/+, &=#%(*#%&#L, (, 038D)+1#+, .4+484+(, .# /2&#, (4#(D)+-&=#4(#/F&#(, #%(3+1#('#/24#32(:&, /, 1&# 2&.&/21%O#/, =#%/4#L5/, H#a+, .4+484+(, .b#/2(2&#)+F&)H# 4(#=(#32(:&, /, 1&.&/21%#aD&%+, =#1)(.&=#=((2.b#(84#('# -2&&=#(2#(84#('#&/2#('#)(.+, -#:&2H#2/2+&1&.#2(5#%&+2# 1())&14+(, .60!*#T%/4#5/, H#58.&85.#/, =#/814+(, #%(8.&.# D&)+&:(#Dܞ&, 4)H#32(4&14+, -#%&5#2(5#D/=#32&..# 1/, #/148/))H#1/8.&#%&5#4(#D&#+, #-2/:&2#=/, -&2#%/, #+'# 4%&H#*&&2&#%(, &.4#'2(5#%&#D&-+, , +, -6

7/, , H#E4(H&aN.b666+, .+-%4.#: (+1&=#5/, H#('# 4%&#.428--)&.###%/=#*%+)(,=814+,-#32(:&,/,1&# 2&.&/21%#(,#4%&#e+14(2#/5+)HN.#3/+,4+,-.6#T%+)%&# e+14(2.\#1/.&#=+''&2.#'2(5#4%&#U/W+0+,:():&=#3/.4.# ('#58.&85.9#/814+(,#%(8.&.9#/,=#/21%+:&.9#+4#=(&.# (:&2)/3#1(,1&2,+,-#2/,.3/2&,1H6#R&.3+4&#%/4#%&2&# /2&#, (4#/, H#)+:+, -#5&5D&2.#('#4%&#e+14(2#'/5+)H#(=/H9# I &25/, #/21%+: &. #/, =#+, .4+484+(, . #2&3&/4&=)H#=&, +&=# 5&#/11&..#(#1&24/+, #=(185&, 4.#(2#2&1(2=.6#P:&, #\&4&2# I /0#.428--)&=#(D4/+,+,-#/11&..#A(#%+.#(*,#/5+)HN.# fywefXgh\fci [\ci hh\YfYgh]h h]cb WbyžVebUfa]b[` 4%/4#%&.4+484+(,#32(1&..#2&5/+,.#\((#=&5/,=+,-# ('#1)/+5/,4. [6#T %+):.&85.9#/814+(,#%(8.&.9#/,=# /21%+: &. #%/: /=Ȕ(: &5&, 4. #(*/2=. #D&1(5+, -# 5 (2/, .3/2&, 4#(:&2#%&/2.9#581%#* (2F#%/.# .4+))#H&4#4 (#D&#=(, &#+, #=+-+4+W+, -#1())&14+(, .6#E81%# 42/, .3/2&, 1H#, (4#(,)H#12&/4&.#/#5 (2&#(3&,#2&)/4+(,.%+3# *+4%#4%&D)+19#D84#4#/). (#%&)3.#/))&:+/4%&#* (2F#('# 4% (:&,/,1&.&/21%&26#E+,1&#U/W+#)((4&=#/24#+.# .1/44&2&=#/2(8, =#%&#* (2)=9#%&.&#+, .4+484+(, .#58.4#/F&# 4%&#.4&3.#, &1&../2H#(*/2=.#D&1(5+, -#/11&..+D)&#(#, (4# (,)H#4% &25/,#38D)+19#D84#/).(#4(#/,#+,4&2,/4+(,/)# 38D)+1#%2(8-%#(,)+, &#/21%+: &.9#+, 0%(8.&#)+, -8+.4.#/, =# 42/,.)/4&=#2&S8&.4# (25.9#/,=#38D)+1#2&.(821&.#4%/4# &=81/4&#%&#&..&, 4+/)+4H#('#32(:&, /, 1&.&/21%6#\$%&# e+14(2.\#1/.&#.&2:&.#/.#/, #&0/53)&#('#*%H#+55&=+/4&# 1%/, -&#+.#, &1&../2H#/, =#*%H#4+5&#+.#('#4%&#&..&, 1&# (2#

^{!@# #7/,,}H#E4(H&9#&5/+)#,4&2:+&*#*+4%#/84%(29#K8-8.4#B9#]^!''6

(4%&2#1)/+5/,4.6#

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c&2)+, &2#R+.F(, 4(#c/, F6#M, #L\&4&2#/, =#c&24/#e+14(2#\/3&2.09#T /.%+, -4(, #R6J6;#OE#` ()(1/8.4#I &5(2+/)#I 8.&859#, 6=6
P+W&, .4/49#E48/24#P=6#]^!''6#_K24#.4()&, #DH#%&#U/W+.#.#.4+))#5+..+, -6#` &2&N.#%(*#*/, #2&1(:&2##460#*E\$4)L.(\$+''/#&'')1&(f*##\,8/2H#]6#
%443.;<<***6*/.%+, -4(, 3(.461(5<(3+,+(,.<, (0(,&0.%(8)=042/=&0+, 0(203(..&.0/240#.4()&, 0DH04%&0, /W+.<]^!''<^]<^]<^]<">B]0
^&=B0!!&''0AB!'0B/']]De>.4(2H6%45)6