

HI '7`Ui gh\U`'g]W\Yfh'A]``]cbYbZÒfXYfi b[ZØf'8Yi hgW\!I_fU]b]gW\Yg'Dfc^Y_h°



7`Ui gh\ U`!NY``YfZY`Xž'8 Yi hgWX`Ub X`!'8]Y`HYW\b]gW\Y
I b]j Yfg]hÀh'7`Ui gh\ U``\ Uh'YfZc`[fY]W\ : ÒfXYfa]hhY``ZØf`XUg'8558!
Dfc Y_h' 8 Yi hgW\!I _fU]b]gW\ Yg'< cW\ gW\i`bYmk Yf_ 'f8I < BŁ
Y]b[Yk cfVYb"'8]YgYg'VYXYi hYbXY`J cf\ UVYb`n]Y`h'XUfUi Z`UVZ'X]Y
< cW\ gW\i`_ccdYfUh]cbYb`nk]gW\Yb`8 Yi hgW\`UbX`i bX`XYf`I _fU]bY
ni 'gh\Af_Yb"'=a 'NYbhfi a 'XYg'Dfc Y_hg'ghY\h'Y]b`[Ya Y]bgUa Yg
8 cddY`UVgW\`i ggdfc[fUa a ']a 'A UghYfghi X]Yb[Ub[
9`Y_hfchYW\b]_'i bX`\DZcfa Uh]cbghYW\b]_Z'XUg']b`Ni gUa a YbUfVY]h
a]h'XYf`BUh]cbU`Yb`HYW\b]gW\Yb`I b]j Yfg]h\h'XYf`I _fU]bY`\d={ cf
G]_cfg_m'?m]j 'Dc`mhYW\b]W\DgW\Yb`I b]j Yfg]h\h'XYf`I _fU]bY`\d={ cf
G]_cfg_m'?m]j 'Dc`mhYW\b]W\DgW\Yb`I b]g\UY\fb\f\B558\EZ\DfXYfh`XUg
Dfc Y_h'a]h'fi bX`+**"\$\$\$'9i fcZ'k Ug'bYi Y`DYfgdY_h]j Yb`]b`XYf
]bhYfbUh]cbU`Yb`i bX`X][]hU`Yb`@Y\fY`i bX`: cfqW\i b['Yf\DZ\DYh''

=bhYbg]j]Yfi b['XYg'k]ggYbgWX UZh`]WX Yb 5i ghUi gWX g

8 Ugʻ: ÒfXYfdfc[fUa a ii a ZUggh'Ui W. X]Y'Cf[Ub]gUh]cb'j cb Gca a YfgWi Yb'i bX'[Ya Y]bgUa Yb'K cf_g\cdgžX]Y'XYb k]ggYbgW\UZh`]W\Yb'5i ghUi gW\']bhYbg]j]YfYb'gc``Yb"'8]YgY ♣ɔ]h]Uh]j Yb'g]bX'HY]``XYf'i a ZUggYbXYfYb'6Ya Ø\i b[Yb'XYg'8558žX]Y'U_UXYa]gW\Y'Ni gUa a YbUfVY]h'nk]gW\Yb'XYi hgW\Yb'i bX i _fU]b]gW\Yb'<cW\gW\i Yb'Ui gni VUi Yb'i bX'gc'Y]bYb g][b]Z]_UbhYb'6Y]hfU['ni f': ÒfXYfi b['XYg'i _fU]b]gW\Yb'<cW\gW\i `gY_hcfg'ni ``Y]ghYb"'@Ui h'5b[UVYb'XYg'8558'k i fXYb']a FU\a Yb'X]YgYg'Dfc[fUa a g']bg[YgUa h'&-'?ccdYfUh]cbgdfc'Y_hY XYi hgW\Yf'<cW\gW\i `Yb'ZØf'Y]bY'j]Yf'À\f][Y': ÒfXYfi b[Ui g[Yk À\`hžX]Y']bg[YgUa h'a]h'&('A]``]cbYb'9i fc'V]g'&\$&-Z|bUbn]Yfh'k YfXYb"

8]Y: OfXYfi b['XYg'Dfc[fUa a gžXUg']a '\(\frac{1}{2}\) \\ Xi fW. 'XUg'6i bXYga]b]ghYf]i a 'ZØf'6]`Xi b['i bX': cfgWki b['f6A 6: Ł i bX'Vf]b[h'(+'i _fU]b]gWkY'I b]j Yfg]hÀhYb']b'Ni gUa a YbUfVY]h'a]h XYb'XYi hgWkYb'DUfhbYf\cWkgWki `Yb'ni gUa a Yb"'8]Y'5i gk U\`i a ZUgghfYbca]YfhY'\(\dagger bgh]hi h]cbYb'k]Y'X]Y'HYWkb]gWkY'I b]j Yfg]hÀh 7`Ui gh\U`'gck]Y'nU\`fY]WkY'UbXYfY'<cWkgWki `Yb"

=bhY[fUh]cb']bbcj Uh]j Yf'X][]hU`Yf
=bghfi a YbhY

 $= ??cbhYlhiX]YgYfi9bhk]W_ib[Yb'[Yk]bbhXUg'8558! \\ : OfXYfdfc[fUaa = A?8 Ub'6YXYihib[ZkY'WXYg'<cWxgWki'Yb']b XYf'X][]hU'Yb'6Y[Y]hib[XYf'Ghi XYbh'xcifbYmibhYfghØhnh''N]Y`]gh YgZ']bbcj Uh]j Y'X][]hU'Y'&ghfia YbhY']b'X]Y'@Y\fY'ibX'JYfk U'hib[ni']bhY[f]YfYbZ'ia'bYiY':cfaYb'XYg'5ighUigWxg'ni'Ybhk]W_Y`bibX'X]YgY'X][]hU`UVniV]`XYb''8 Ug'Dfc[fUaa'ZOfXYfh'bYiYAcV]`]hAhgZcfaUhYZ'X]Y'd\mg]gWxY'AcV]`]hAha]hij]fhiY``Yb?ccdYfUh]cbgaO[`]Wx_Y]hYb'_caV]b]YfYbZ'ibX'k]fX'jca'6A6:Z]bUbn]Yfh''9g'ghY``hY'Y]b'k]Wxh][Yg'&ghfiaYbhXUfZ'ia'X]Y&hYfbUh]cbU`]g]Yfib['XYf'<cWxgWxi'Yb'jcfUbnihfY]VYb'ibXX][]hU`Y'9`YaYbhY'[Yn]Y`h'Y]bnigYhnYb''$

Ni gUa a Yb[YZUggh']gh'XUg'8558!DfcY_h' 8Yi hgWX!I_fU]b]gWXYg <cWxgWXi `bYhnk Yf_ 'Y]b'Y`Ya YbhUfYf'6YghUbXhY]`'XYf'U_hi Y``Yb 6YghfYVi b[Ybž'X]Y']bhYfbUh]cbU`Y'<cWxgWXi `V]`Xi b['ni fYZcfa]YfYb'i bX'I_fU]bY']b'XYb'9i fcdA]gWXYb'<cWxgWXi `fUi a 'ni]bhY[f]YfYb"'8]Y'_cbh]bi]Yf`]WXY'?ccdYfUh]cb'nk]gWXYb'XYb I b]j Yfg]hAhYb'V]YhYh'A Ò[`]WX_Y]hYb'ZØf'Ghi X]YfYbXY'i bX K]ggYbgWXUZh`Yf'Ui Z'VY]XYb'GY]hYbž']\fY'DYfgdY_h]j Yb'ni Yfk Y]hYfb'i bX']bbcj Uh]j Y':cfgWXi b[gUbgAhnY'ni 'Ybhk]\w_Y`b"

8 Y hU]`g	
J c f ZU``	Gcbgh][Yg
Cfh	7`Uigh\U`!NY``YfZY`Xž'8YihgW\`UbX
GWX UXYb ']b '	+ * * \$ \$ \$
EiY``Yb	• k k k "hi !WUi gh\U`"XY
	• k k k "XUUX"XY
	• k k k "XUUX"XY

6Ygi WXYb G]Y i bg Ui Z. b!U["bYh