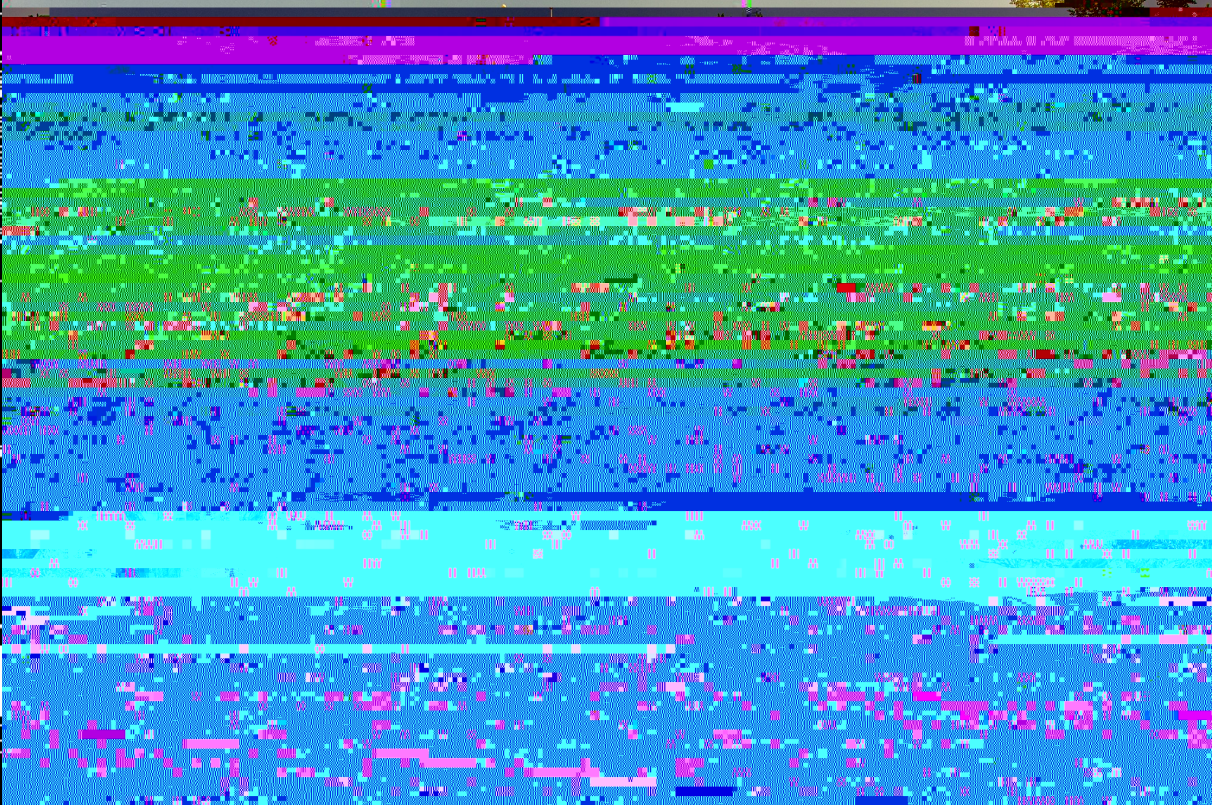


GMAT4150

: JY`X'Dfc YWg'&

HYfa &Z&\$&&



7ci fgY`Cj Yfj]Yk

GHJZZ7cbhJWWh8YHU]`g

7cbj Ybcfg

Bua Y	9a U]`	5j U]`UV]`]fm	@cWWh]cb	D\cbY
>]b`b[`K Ub[/b`b["k Ub[4 i bgk "YXi "Ui	Mci `a UmWcbhJWWh a Yj]U`HYUa g`cf Ya U]`Ubm]ha Y"	79(%	- ' ,) `(&\$'

@YWWh fYfg

Bua Y	9a U]`	5j U]`UV]`]fm	@cWWh]cb	D\cbY
6fi W`< Ufj Ym	V`\Ufj Ym# i bgk "YXi "Ui	Mci `a UmWcbhJWWh a Yj]U`HYUa g`cf Ya U]`Ubm]ha Y"	79&\$+	- ' ,) `(%,+

GWXcc`7cbhJWWh#Zcfa Uh]cb

[9b\[\]bYYf\]b\[`Gh XYbhGi ddcfhGYfj \]Wg](#) - `H\Y`Bi WYi g! `Ybfc`a Ybhz`dfc[fYgg]cb`WXYW_gz`WUg\ `fYei Yghgz
Wci fgY`]ggi Yg`cf`dfc[fUa !fY`UH`X`ei Yf]Yg`

[9b\[\]bYYf\]b\[`#Xi gh\]U`HfU\]b\]b\[](#) - `#Xi gh]U`HfU]b]b[`ei Ygh]cbg`

[I_BGK `Gh Xm5VfcUX](#)

7ci fgY'8YHJ]`g

I b]hg'cZ7fYX]h*`

Gi a a UfmicZ`hY'7ci fgY

Dfc'YWh'k]''bj c] Y'ga U''[fci dg'cZgh XYb'g'k cf_]b['Ug'U'h'Ua 'hc'Wca d'YH' h'Y'XYg][b'UbX'YI YW h]cb'cZ
gY'YWH'X'hUg_g']b'Gi fj Ym]b['UbX'; YcgdU]U''9b[]bYYf]b["Hcd]W]a UmVY'WUXUg]fU''gi fj Ymgz'fYa ch'
gYbg]b['UbU'mg]g'cZ'hY'Ybj]fcb'a Ybh'Z'ca 'gUH'']h']a U[Ygž'X][]h'U'd\c'hc[fUa a Yf]W'a Udd]b['hUg_gž
gYh]b['i d'U'd'fY'W]gY [YcXYh]W'W'cb'f'c''bY'h'k cf_ž'h'Y'i gY'cZdfY'W]gY'; BGG'h'W'X'b]ei Ygž'W'c''Y'W]cb'cZ'X'U'h]Z'cf
UbX'XYg][b'cZU'; €'gmg'h'Ya ž'U'd'fY'W]gY'Yb[]bYYf]b['gi fj Ym'cf'h'Y'XYj Y'cda Ybh'UbX'UbU'mg]g'cZU
[YcgdU]U''X'U'h]U'U'gY'cZU'fY[]cb''G'h' XYb'g'k]''i gi U''mVY'f'Yei]fYX'hc'U'h'Y'b'X'U'cb'Y'k'YY_'cZ'W]a di g'ž'Y'X
k cf_]f]gi fj Ym'W]a d'c'f'fY[i 'Uf'X'U'm'f]dg'hc'Ub'cZ'W]a di g'ž'Y'X'g]h'Y'UbX'd'fY'g'Y'bh'h'Y'f'Y'gi 'hg'cZ'h'Y]f[fci d
dfc'Y'Wh]b'U'k Y''k f]h'Y'b'h'W'X'b]W'f'Y'd'c'f'i'UbX']b'X]j]Xi U''d'fY'g'Y'bh'U]cb'g'hc'h'Y'[fci d''

7ci fgY'5]a g

H'Y'c'V'Y'W]j Yg'cZ'h'Y'W'ci fgY'U'fY'hc'V'f'c'U'X'Y'b'UbX'X'Y'Y'd'Y'b'm'ci f'_bck'Y'X[Y'UbX'YI d'Yf]Y'b'W'c'Z'gi fj Ym]b[
UbX'[YcgdU]U''X'U'h]U'W'ei]g]h]cb'ž'gi fj Ym]b[]b'g'h'i a Y'b'U'h]cb'UbX'a c'X'Y'f'b'a c'V]Y'a Udd]b['gmg'h'Ya gž'ž'Y'X
a Y'h'c'X'gž'UbX'gi fj Ym]b['UbX'a Udd]b['gc'Z'k U'f'Y'ž'V'm'W'c'b'X'i W]b['m'ci f'c'k b'gi fj Ym'UbX'a Udd]b['U'W]j]h]Y'g'U'h
U'g]h'f'Ya ch'Z'ca 'h'Y'I B'G'K 'W]a di g'c'f'c'b']h'h'Y'U]a]g'hc']bj c] Y'm'ci]b'a UbU[Ya Ybh'Ugd'Y'W]g'cZ'ž'Y'X
gi fj Ym'UbX'a Udd]b['hUg_g'Ug'k Y''Ug[U]b]b['a c'f'Y'YI d'Yf]Y'b'W']b'a Y'U'gi f'Ya Y'bh'ž'ž'Y'X'k cf_'XYg][bž'UbX

4k fZdWW_ WfZaVe i W_ Sk MSd i [eVa_ , 8[defl Tk d\XWUf[a` t i Z[UZ [e` aT`Wef- eWJa` VI Tk [[fSf[a` t i Z[UZ [e WSe[Wef- S` V fZ[dv Tk Wj bWd[W UW i Z[UZ [e fZWT [ffWdWefz

7cbZ Wj g'5Z[WbWZ[aeabZWd~ dWad_ Wd/ ' # 45 Ž&) + 45 fi

: cfYI Ua d'Y. ã]HJcb]g'hY'k Um'YWñ fYg'fi b'fk Y'fmihc'hYUW' mci '[ccX'k Umg'hc'Xc'h]b[g'UbX'[Yhmc i 'hc Wcdmcf]a d'Ya YbhihYa E"9I dYf]YbW']g'k \Uh\UddYbYX'hc' mci 'k \Yb' mci 'Zci bX'hUh'hY'F H? ; DGŽcf @UgYf'GWJbbYfz'WJbñiVY' ↑ghid]W_YX'i d'UbX'i gYX'fñY'Yei]da YbhbYXYX'hc' VY'gYh d'UbX'dfUWñWYX'E" C f mci '\UX'k fcb['gWJ'Y'ZJW'cf'YbhfYX']b'hY'98A 'YHW'@JHf']b'hY'Wci fgY' mci 'WJb'fmihY'fYZYW]cb'dUfh! k \Yb' mci 'k f]h' mci f'fYdcfhih]b_ UVci hk \Uhmci 'X]X'VYZcfYžUhUbX'UZhf'Z]Y'Xk cf_/k \Uhk ci 'X' mci 'Xc VYhYf']Zmci 'k YfY'hc'Xc']hU[U]b'cf'Xc'U'g]a]'Uf'gi fj YmY'gYk \YfY3

5ggYgga Ybh

9UWX'ghi XYbhg\ci 'X'j]bWl XY'U'hja Y'g\YYh]bX]WU]h]b['h.Y'hja Y'gdYbhcb'h.]g'Wci fgY-']b'a i WX'h.Y'gUa Y k UmUg'U'Vi g]bYgg'k ci 'X'i gY'hc'WXUf[Y'U'W]YbhZcf'k cf_'cb'U'dfc'YWW' h'g\ci 'X'j]bWl XY'fUj Y'UbX a YYh]b['hja Y'"Gh XYbhg'g\ci 'X'bhgdYbX'a cfY'h.Ub%) \$'\ci fg'cb'h.Y'Wci fgY'"<ck Yj Yf'z'gh XYbhg'g\ci 'X bhgdYbX'k UghY' hja Y'Xc]b[]X'Y'UW]j]h]Yg'a YfY'mhc'UWW a i 'U'h' hja Y'Zcf'h.Y'dfc'YWW'

Gh XYbhg'k]'VY'fYei]fYX'hc'gi Va]hU'Zcfa U'XcW'a YbhYX'gY'ZUggYgga Ybhcb'h.Y]f'dUfh]W]dUhc'b]b'h.]g Wci fgY'"Gh XYbhg'k \c'gdYbX'hc'Zyk '\ci fg'cb'h.]g'Wci fgY'\Uj Y'dfc'VUV'mibch'Wcbf]Vi h'X'g][b]Z]W]bh'm' h.UhUZZYW]g'h.Y]f'ck b'YUfb]b['UbX'h.Y' [fci d'g'ci hdi h'H\Y'a U]b'fYUgcb'Zcf']bWl X]b['hja Y'g\YYh]g]b'h.Y Wci fgY']g'VYW]i gY'gca Y'dUfh]g'cZ]bXi g'f'mfYdc'fh'h.Uhgca Y' [fUXi U'h]g'UfY'bchYI dYf]YbW]X'Uh'fY'Wc'fX]b[hc'U' hja Y'gdYbhcb'U'dfc'YWW'UbX'h.Y'Wc'bgYei YbW]g'Zcf'Vi X[Y'h]b[z'UbX'ei ch]b['Zcf'Zi h'fY'dfc'YWW]g"

5g'U'a UbU[Ya YbhYI YfW]Ug

%o

%o

%o



✂X]j]Xi U`gY`Z UggYgga Ybhf%\$i ŁfBi Y. `*da ž%%5i [i gh&\$&&Łk]`VY`UggYggYX`VUgYX`cb`W]hřf]U
gi dd`]YX`]b`U`gYdUfUH`XcW a Ybh`

5 HbXUbW F Yei jfYa YbHg

Gh XYbHg g\ci X UHbX U H Y gWXY Xi YX dfc YW UHj jH Yg

7 ci fgY GWXY Xi Y

8 i fjb[H Y k YY_ %WUggz ghi XYbHg k] VY [j Yb H Y UXj] W' cb H Y XYU] g' Zc f H Y dfc YW H Y gh XYbHg k] Zcfa [fci dg Zc f H Y dfc YW H Y UH X U W H j] H Y g' h c d Y f Zcfa '] b' K YY_ %zgc a U_Y gi fY mci ' UH bX' H Y a cgh W f H j W U W H j] m] b' K YY_ %k] VY H Y X] g W gg] c b g' c b H Y g c W U X] g H U b W b [' a Y U gi f Y g Zc f Z Y X k c f U W H j] H Y g "

H Y hja Y H U V X W U gg] g' K Y X b Y g X U m - U a ' c b k U f X Y U W k Y Y _ " H Y (! \ c i f h j a Y g ' c h] g] b H b X Y X ' g c ' H U h m c i W U b ' X c Z Y X k c f _ U b X c f X U H U U b U m g] g' Zc f H] g' d f c Y W h c b ' g c a Y X U m g ' f b c h b Y W g g U f] m Y j Y f m k Y Y _ E k] H c i h] b H f f i d h] c b g Z c a ' c H Y f W U g g Y g " C Z W c i f g Y m c i ' U f Y b W c i f U [Y X ' h c ' g d Y b X ' g c a Y c H Y f h j a Y ' c b ' a Y Y h j b [g z W U W ' U h] c b g z f Y d c f h k f h j b [z Y H W ' 8 Y g W] d h] c b g c Z H Y d f c Y W g z g] H ' d \ c h c g U b X ' a U d g z < / G ' Z c f a g z Y H W z k] V Y X] g W g g Y X U h H Y W U g g ' a Y Y h j b ['] b' K Y Y _ % "

H Y Z Y X ' g i f j Y m g ' U b X ' a U d d] b [' U W H j] H Y g ' k] V Y W c b X i W Y X U g [f c i d ' k c f _ " G h X Y b H g ' k] H] b ' U [f c i d ' X c ' b c h b Y W g g U f] m U ' X c ' H Y g U a Y ' H U g _ g " : c f Y I U a d ' Y z c b Y ' g h X Y b h i a] [\ h H U _ Y ' c b ' a U b U [Y a Y b h X i H Y g ' U b X c f [U b] g Y ' c [] g H W g ' k \] Y ' c H Y f ' g h X Y b H g W c b W b f U H ' c b X Y g] [b z d f Y ! Z Y X k c f _ W U W ' U h] c b g ' U b X d f Y d U f U h] c b g z Y H W ' ' h] g i d ' h c ' H Y [f c i d g ' h c ' Y b g i f Y U ' ' g h X Y b H g W c b f] V i H ' U d d f c d f] U H ' m z U g ' X] g W g g Y X '] b 9 B ; ; % \$ \$ \$ " H Y W c i f g Y W c f X] b U h c f ' a U m i U g g] [b ' X] Z Y f y b h a U f _ g ' h c '] b X] j] X i U ' g h X Y b H g z U h H Y f ' X] g W Y h j c b z V U g Y X ' c b ' g h X Y b h d Y f Z c f a U b W W '] b ' H Y Z Y X ' k c f _ U b X '] b ' H Y W U g g ' X] g W g g] c b g "

Gi fj YmGhcFY 9ei Jda Ybh

Gh XYbHg k] g \] b [' h c ' W c ' Y W H g i f j Y m Y e i] d a Y b h Z c a ' H Y ' g i f j Y m g h c f Y ' a i g h [] j Y ' U ' X Y U] Y X ' k f] H b ' '] g h c Z f Y e i] f Y a Y b H g ' h c ' H Y] f ' g i d Y f j] g c f U h ' Y U g h c b Y X U m V Y Z c f Y] H g ' f Y e i] f Y X ' i g Y z c f ' a c f Y U g ' g d Y W Y Z Y X V m d f c Y W h g i d Y f j] g c f Z c f Z Y X ' f] d g " H Y f Y '] g ' b c ' d Y f g c b ' d Y f a U b Y b h m] b ' H Y ' g i f j Y m g h c f Y ' g c ' g h X Y b H g ' k] ' b Y Y X ' h c c f [U b] g Y ' h j a Y g ' c Z W c ' Y W H c b U b X ' f Y h f b ' c Z Y e i] d a Y b h W U f Y Z ' ' m ' H Y ' g i d Y f j] g c f ' k] ' b c h V Y ' U V Y ' h c ' W c a Y U b X [c Z c a ' H Y ' g h c f Y Z Y e i Y b h m X i f] b [' H Y X U m c f U h g \ c f h b c h W " " "

DFC >97 H ' 5 . F i f U ' W U X U g h f U ' z d ' i g ' ; D F ' U b X ' \ m d Y f g d Y W f U ' X f c b Y ' f G i d Y f j] g c f . ' 6 f i W W ' < U f j Y n t

H \] g ' d f c Y W h] b ' & \$ & \ U g ' V Y Y b ' X Y g] [b Y X ' h c ' f Y e i] f Y ' g h X Y b H g ' h c ' H] b _ U V c i h \ c k ' h c ' H U W _ Y ' U ' d f c V ' Y a ' H U h H Y m a] [\ h b c h \ U j Y ' k c f _ Y X ' c b ' V Y Z c f Y z c f ' h c ' k c f _ c b '] h] b ' U ' k U m X] Z Y f y b h h c ' k \ U h H Y m i a] [\ h \ U j Y Y I d Y f j Y b W X '] b ' d U f h i a Y ' Y a d ' c m a Y b h "

H \] g ' d f c Y W h \ U g ' V Y Y b ' X Y g] [b Y X ' h c ' \ U j Y ' U ' Z Y I] V Y '] a d ' Y a Y b H U h c b " G Y j Y f U ' c d h] c b g ' U b X ' H U g _ g U f Y X Y g W] V Y X ' V Y c k " " C i f '] b H b h j c b] g ' h c ' f i b ' H] g ' d f c Y W h] b ' : U W W ' h c ' : U W W ' ' a c X Y ' U g ' a i W X ' U g ' d c g g] V Y " G h X Y b H g ' U f Y Y I d Y W X ' h c ' \ U j Y ' f Y [i ' U f ' a Y Y h j b [g ' U a c b [g h H Y a g Y ' j Y g ' U b X ' k] H ' H Y ' W] Y b h f H Y ' U W X Y a] W g i d Y f j] g c f "

H \] g ' d f c Y W h k] '] b W i X Y ' U " ' X U m f Y g] X Y b h U ' Z Y X ' f] d '] b ' k Y Y _ * U h 7 U h f U W h G W c i h D U f _ U b X ' k] ' \ U j Y ' U ' U V a Y Y h j b [' Y U W k Y Y _ X i f] b [' H Y f a ' k c f _] b [' c b ' H Y d f c Y W h ' 5 X X] h c b U ' h j a Y ' k] ' V Y ' g d Y b h V m i g h X Y b H g d f Y d U f] b [' f Y d c f H g ' d f c X i W] b [' d ' U b g ' U b X ' U b U m g] g ' ' 5 ' h c ' H U ' c Z U a c g h %) \$ ' \ c i f g '] g ' Y I d Y W X ' V i h g h i X Y b H g g \ c i ' X ' b c h ' k U g h ' ' h j a Y ' X c] b ['] X Y ' U W H j] H Y g ' a Y f Y m i h c ' U W W a i ' U H ' h j a Y ' Z c f ' H Y d f c Y W h "

H\Y`Yei]da Ybhk Y` \cdY`hc`i gY`a][\h]bWi XY.`ga Ufhid\cbYg`k]h`; BGG`Uddg/F H?; BGG/hcHU`ghU]cbg/
dcgg]V`miU`I 5J`k]h` \mdYfgdYVffU`WJa YfU/UbX`; fci bX`DYbYhfU]b[`F UXUf`fj DF Ǝ

H\Y`dfc`YWha UmVY`WUff]YX`ci hVmU`hUa `cZ)!*`ghi XYbqg"

DfcdcgYX`Dfc`YWhHUg_g`UbX`Ci hWta Yg

- DfYdUfY`Zcf`UbX`hYb`WcbXi WU`fi fU`WUXUghfU`gi fj YmicZdUfhcZhY`Vci bXUfmcZhY`GWci h]b[
5i ghfU`]U`g]hY`Uh7 UhfUWU`:`]bX`YI]gh]b[`WUXUghfU`a Uf_gza YUgi fY`hY]f`Wc`cfX]bUhf`gza dUfY`k]h`
hY`8Dg`_a ``Z]Yz`UbX`Wta dUfY`Xja Ybg]cbg`k]h`DC "
- 8fUk `U`8D`cZhY`WUXUghfU`Vci bXUf]Yg`UbX`dfcXi W`U`_a ``Z]Y"
-

[YcgdUĤU`hYVXbc`c[]Yg`hUhWJb`VY`i gYX`hc`Wc`YWhUbX`j]gi U`gY`[Yc!fYZfYbWwX`X][]ĤU`Ybj]fcba YbĤ

F Ygci fWg

H\Y`GWcc`\Ug`U`UbX\Y`X" 8`UgYf`a Udd]b[`gmgh`ya žN96!F 9J C`Zca `; YcG@5A `@X`fi ? E`H\Y`N96!
F 9J C`UgYf`a Udd]b[`gmgh`ya ž]bj YbhYX`Vm7 G`F C`f5i gĤU`]UŁž]g`gY`ZWc`bĤ]bYX`UbX`XcYg`bchfY`mcb
YI HfU`dcg]Ĥcb]b[`gmgh`ya g`hc`dfcXi VW" 8`a YUgi fYa Ybhg`k` \]W`UfY`gi]ĤUV`Y`Zcf" 8`a Udd]b[
Udd`]WĤĤcbg`]b`]bXccfž`i bXYf[fci bX`UbX`ci ĤXccf`Ybj]fcba Ybhgž`]bWi X]b[`cWĤĤcbg`dfYj]ci g`m
]bUVWYgg]V`Y`hc`Uf[Yf`gWĤbb]b[`Yei]da YbĤ`A cfY]bZca UĤcb`cb`N96`F 9J C`a Udd]b[`gmgh`ya `UbX
dchYbh]U`Udd`]WĤĤcbg`WJb`VY`Zci bX`UhĤY; YcG@5A `k YVg]ĤY. [\Ĥdg.# Ycg`Ua "Wca #](#)

H\Y`GWcc`\Ug`U`gc`di fWUgYX`U`a cV]Y`@]85F`gmgh`ya `fGWci ĤZca `5a Yf]WJb`Wca dUbmD`cYb] žgYY
ĤY`hYVXb]WJ`gdYW]Z]WĤĤcbg`cZĤ.]g`gmgh`ya `UĤf[\Ĥdg.# k k "d`cYb\] \]XUf`Wca #\]XUf\]gc`i Ĥcbg#`"K \]Ĥ`Ĥ\[\h](#)

- Hc'XYg][bž'UbX'Wffmici hž'U'dfcWfXi fY'hc'Yj U'i UfY'ħY'UWW fUWmicZ' 8'fYU']mZYUhi fYg"
- Hc'j]gi U']gY'ħY'" 8'fYU']mZYUhi fYg'j]U'U'gcZk UfY'hc'"

A YħcXc'c[mUbX'5Wfj]hYg

H\]g'dfc'YWh]g'hc'VY'Wff]YX'ci hUg'Z'ck g.

UŁ@]hYfUhi fY'fYj]Yk

5'"]ghcZfY'Yj UbhVUW[fci bX'fYUX]b['a UfY]U'g'k]'VY'dfcj]XYX"; i]XYX'fYUX]b['cZħYgY'a UfY]U'g'k]'VY gWXYXi 'YX'Xi f]b['dfc'YWhħYUa 'UWfj]hYg"

@]hYfUhi fY'cb'a YfUj YfgY. ħY'WcbWdhgž\]ghc f]Wf'XYj Y'cda Ybfgž'UbX'Udd']Wf]cbgž'Ug'k Y'Ug'ħY'bYYXg UbX'fYei]fYa Ybfg'cZ[YcgdUf]U'ħWbc'c[]Yg'Zc'f'c]g]hcb]b[ž'a Udd]b['UbX'bUj] [Uf]cb"

VŁDfc'YWhħYUa 'k cf_g\cdg

A U'cf'UWfj]hYg'Xi f]b['ħY'k cf_g\cdg]bWf XY. ; i]XYX'X]gW gg]cbg'cb'a YfUj YfgY'WcbWdh'UbX'Yj c'i hcb UbX'ħY'df]bWd'Yg'VY\]bX'a cXYfb'a i 'h]gYbgc'f'a cV]Y'a Udd]b['UbX'bUj] [Uf]cb'gmghY'a g"8]gW gg]cbg'cb j Uf]ci g'gYbgc'f'g'Zc'f'U'a cV]Y'a Udd]b['UbX'bUj] [Uf]cb'gmghY'a 'gi W'Ug; BGGž'ħYf]U'B Uj] [Uf]cb'GmghY'a fĤGŁ'WJa YfU'UbX'@UgYf'gWbbYfz'YħW'8Ya cbgfUf]cb'cZa cV]Y'a Udd]b['gmghY'a 'cdYfUf]cbg'< UbXg'cb k]ħ'XUf]dfc'Wf]gg]b["Dfc'YWhħYUa 'k cf_]b['d'Ub'Zc'f'j Uf]ci g'fUg_g]b'ħY'a Udd]b['UbX'bUj] [Uf]cb Yl dYf]a Ybħ"

WŁFYU'!hja Y'a Ud'WfYUf]cb'UbX'j]gi U']nUf]cb'dfc'WfXi fY'XYg][b'UbX'Z]Y'X'ħYgfhg

6UgYX'cb'ħY'UbU'mg]g'cZYffcf'WfUfUWf]gh]Wg'cZ; BGGž'F H? ž'ĤGž'a cV]Y'a Udd]b['gmghY'a gž'YZ]W]Ybh gi f] Ym]b['UbX'a Udd]b['dfc'WfXi fYg'hc'k UfXg'j Uf]ci g'cdYfUf]b['Ybj]fcb'a Ybfg'UbX'Udd']Wf]cbg'UfY'hc'VY XYg][bYX"Gi W'cdYfUf]cb'U'dfc'WfXi fYg'Ug'k Y'Ug'cħY'f'VYghdfUWf]W' [i]XY'j]bYg'UfY'hc'VY'UbU'mgYX'j]b ħYfa g'cZUWfW fUWf]UbX'fY'j]UV']m]k \]W'UfY'fYei]fYX'j]b'U'a YfUj YfgY"

H\Yb'gca Y'Z]Y'X'ħYgfhg'k]ħ'ħY'a i 'h]gYbgc'f'a Udd]b['UbX'bUj] [Uf]cb'gmghY'a ž'D\cYb] ž'UfY'hc'VY'Wff]YX ci hUhiħY'6cfUbmGhDUf_]b['GfUf]cbž' B Gk ž'UbX'gca Y'gYWf]cbg'cZħY'fcUXg'Ufci bX'ħY'f'c'UbX'DUf_ Z]Y'X'Yl dYf]a Ybfg]ħYž'WcgY'hc' B Gk 'WJa di gŁž'UbX'ħY'fYgi 'hg'k]'VY'j U']XUf]X'UbX'Wca dUfYX'k]ħ'ħY fYgi 'hg'Zca 'dfYWgY'hc'U'g'fUf]cb'gi f] Yma YħcXg"

WŁj]YfU'f]g b l e s

H\Y'a U'cf'XY'j] YfUV'Yg'Zca 'ħ]g'dfc'YWhUfY.

UŁDfc'YWhħYUa 'f] fci dŁ'fYdcfħ'

A U'cf'WcbħYbfg]b'ħ]g'[fci d'fYdcfħ'a Um]bWf XY'f'a cfY'XYfU]g'k]'VY'X]gW ggYX'Xi f]b['ħY' [fci d a Yf]b[gŁ'6UW[fci bX'cZħY'dfc'YWhħc]WUfYU. [YcgdUf]U'a Udd]b['UbX'bUj] [Uf]cb'Zc'f'a YfUj YfgY/ A cħ] Uf]cb'cZħ]g'Z]Y'X'dfc'YWhUfYg'gh X'm'@]hYfUhi fY'fYj]Yk /A YħcXg'cZYj U'i Uf]b['ħY'UWW fUWmicZ

5 'gYdUfUHY'XcW a Ybhk]''XYgW]VY'ĤY'XYĤJ]g"

WĚ:]bU'f]bX]j]Xi U'ĚfYdcfh

9UWĤ'dfc'YWĤĤ'Ua'ia Ya VYf'g\ci'X'dfYdUFY'U'Z]bU'dfc'YWĤfYdcfhĤ'gi a a Uf]gY'ĤY'dfc'YWĤk cf_
]bXYdYbXYbhm'Ĥ\Y'Z]bU'fYdcfhk]'']bWĤ XY'gi WĤ'gYWĤcbg'Ug. ĤbfcXi WĤcb/A YĤJ YfgY'WĤbWĤdhUbx
Yj c'i Ĥcb/Dcg]Ĥcb]b[ža Udd]b['UbX'bUj][UĤcb'bYYXg']b'U'a YĤJ YfgY/5bU'mg]g'cZYffcf'WĤUfUWĤf]gh]Wg'cZ
fYU'ĤĤa Y'a Udd]b['dfcWĤgg/6YghdfUWĤWg'Zcf'fY'Yj UbhXUĤU'UWĤi]g]Ĥcb'UbX'dfcWĤgg]b[/K cf_Zck'Zcf
XUĤU'UbU'mg]gž'UbX'' 8'ia Ud'WĤYUĤcb'UbX'j]gi U'ĤnUĤcb/9j U'i UĤcb'Zcf'gca Y'gdYWĤZ]W' 8'ZYUĤi fYg/
7cbWĤ g]cbg'UbX'fYWĤa a YbXUĤcbg/F YZ'fYbWĤg"

XĚ:ĤX]j]Xi U'gY'Z UggYgga YbhfYdcfh

5 'gYdUfUHY'XcW a Ybhk]''XYgW]VY'ĤY'XYĤJ]g"

[J \]Yk'WUgg'Ĥa YĤUV'Y](#)

H]a YĤUV'Y'

8UHĤ	HrdY	7cbĤYbh
K YY_(.'&\$'>i bY'!&(>i bY	5ggYgga Ybh	Dfc'YWĤĤYUa'f] fci dĚ'F Ydcfh
GĤ XmiK YY_', '5i [i gh! %%5i [i gh	5ggYgga Ybh	:]bU'f]bX]j]Xi U'Ě'F YdcfhUbX'dfYgYbhUĤcb. DfYgYbhUĤcb'Xi Y.'%\$Ua ž' '5i [i gh&\$&&
	5ggYgga Ybh	ĤX]j]Xi U'GY'Z 5ggYgga Ybh

F Ygci fWg

DfYgWf]VYX F Ygci fWg

- A UHf]U'g'Zca 'dfYj]ci g; A 5H'Wci fgYg'hUhmci '\Uj Y'ghi X]YX"
- 5XX]hcbU'a UHf]U'g'dfcj]YX'cb'A ccX'Y"
- Gi fj YmYei]da YbhZca 'ci f'ghcfY'79'; +"

7ci fgY'9j U'i Uh]cb'UbX'8Yj Y'cda Ybh

H\]g'g'U'Wdg]cbY'dfc'YWh'Wci fgYzH\Y'Wci fgY'dfc'YWg'\Uj Y'VYYb'XYg][bYX'hc'fYZYWh'hY'W ffYbhlfYbXg UbX'VYghdfUW]W']b'hY'dfcZYgg]cb"i\Ug'VYYb'U'k Umg'U'Zj cfUhr'Wci fgY'Zcf'ghi XYbhg'cj Yf'a UbmmYUfg"

@UVcfUhcfmK cf_g\cd'Zcfa Uh]cb

7ca di hUh]cbg'UbX'k cf_g\cdg'a UmXYdYbX'cb'dfc[fYgg'cZYUW'dfc'YWh]b'hY'Wci fgY"5'hY'bYYXg'k]` VY'X]gW ggYX'j]U'hY'dfc'YWh'a YYh]b[g" GdYW]U'UffbU[Ya Ybhg'k]"VY'a UXY'cb'U'WUgY!VmiWUgY'VUg]g"

Gi Va]gg]cb'cZ5ggYgga YbhiHUg_g

D`YUgY`fYZf`h`h`Y`A`ccX`Y`dU[`Y`cZ`h`Y`W`i`fgY`Z`f`Z`f`h`Y`f`[`i`]XUbW`'cb`UggYgga Ybhgi Va]gg]cb"

I BGK `Ug`U`g`h`Ub`X`U`f`X`U`h`Y`'gi Va]gg]cb`d`Y`b`U`'h`m`c`Z`

-)i `d`Y`f`X`U`m`z`Z`f`U`U`UggYgga Ybhg`k` \`Y`f`Y`U`d`Y`b`U`'h`m`U`d`'Y`g`z`W`U`d`d`Y`X`U`h`Z`j`Y`X`U`m`g`f`%`&`\$` \`c`i`f`g`l`z`U`Z`Y`f`k` \`j`W`'U`'g`h`X`Y`b`h`W`U`b`b`c`h`g`i`Va`]`h`U`b`U`g`g`Y`g`g`a`Y`b`h`z`U`b`X`'b`c`'d`Y`f`a`]`h`Y`X`'j`U`f`]`U`h`]`c`b`"

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

6Yk UFY`5b`Ugg][ba Ybh`h`Uh]bW` XYg`d`U[]Uf]gYX`a` UHf]U`k`]`fYW]j` Y`U`\$i` :` U]z`UbX`gh` XYbtg`k` \c`
d`U[]Uf]gY`a` UmZ]`h`Y`W`i` fgY`G`h` XYbtg`k` \c`d`U[]Uf]gY`UfY`U`gc`]UV`Y`hc`X]gW]d`]bUfmUW]cbz`]bW` X]b[
YI`W`g]cb`Zca`Ybfc`a`YbH`

D`U[]Uf]ga`]g`h`Y`i` gY`c`ZUbch`Yf`d`Yfgcb`g`k` cf`_`cf`]XYUg`Ug`]Z`h`Ymk` YfY`mci` f`ck`b`"K` \Yb`]h]g`bYW]ggUfmc`f`
XYg]fUV`Y`hc`i` gY`c`h`Yf`d`Ycd`Y`g`a` UHf]U`mci` g`l`ci`X`UXYe`i` UH`m`UW`bck`YX[Y`k` \cgY`k` cfXg`cf`]XYUg`h`Ym`
UfY`UbX`k` \YfY`mci` Z`ci` bX`h`Ya` f[]j`]b[h`Y`W`a` d`YH`f`Y`Z`f`Y`b`W`XYH]g`z`]bW` X]b[`dU[Y`bi` a` VYffg]H`Y`
@YUfb]b[`7`Yb`f`Y`dfc]j`XYg`Z`f`h`Yf`]bZ`ca` U]cb`cb`k` \Uh`W`cbgh]h` h`Y`g`D`U[]Uf]ga` `Uh`

5WUXYa]WbZcfa Uh]cb

:]bU`9I Ua]bUh]cbg.

:]bU`YI Ua g]b`H&`&\$&&k]`VY`VY`X`cb`]bY`VY`k`YYb`%&h`!`&) h`5i [i gh&\$&&]bW`g]j Yz`UbX gi dd`Ya YbHf`mYI Ua g`VY`k`YYb`) h`!`-`h`GYd`hYa VYf`&\$&&]bW`g]j Y`Mci`UFY`fYeI]fYX`hc`VY`Uj U]UV`Y`cb h`YgY`XUH`g"D`Y`UgY`Xc`bch`c`a`U`_`Ubmd`Yfg`cbU`c`f`h`Uj Y`Uff`Ub[Ya Yb`hg`Xi`f]b[`h`]g`d`Y`f]c`X"

57589A ⇒ 58J ⇒ 9

- ?YmGHUZZhc`7`cbH`UW`h`Z`c`f`5`W`U`X`Y`a`]W5Xj]W`f`l`c[`]b`k]h`m`c`i`f`n`-`8`UbX dUggk`c`f`X`E` [\hfdg.##bhfUbYh`Wj`Yb\["i`bgk`"YXi`"Ui`#`YmghUZZhc`!`V`c`b`h`U`W`i`X`i`f\]b\[!mci`f\]gh`X\]Yg!`U`h`i`bgk`](#)
- ?Yml`BGK`8`Uh`Yg`!`Y[""7`Ybgi`g`8`UH`ž`YI`Ua`X`UH`g`ž`U`gh`X`U`m`h`c`X`f`c`d`U`W`c`i`f`g`Y`k`]h`c`i`h`U`W`U`X`Y`a`]W`Z`b`U`b`W`U`""]U`V"]h`m`Y`h`W`
- 7`J`9`B`G`h`X`Y`b`h`-`b`h`f`U`b`Y`h`f`l`c[`]b`k`]h`m`c`i`f`n`-`8`UbX dUggk`c`f`X`E` [\hfdg.##bhfUbYh`Wj`Yb\["i`bgk`"YXi`"Ui`#`gh`X`Y`b`h`\]b`f`U`b`Y`h`](#)
- Gh`X`Y`b`h`@]Z`U`h`7`J`9`B`ž`]b`W`i`X`j`b[`G`h`X`Y`b`h`G`c`W`Y`h`Y`g` [\hfdg.##k`k`k`"i`bgk`"YXi`"Ui`#`b\[\]b`Y`Y`f\]b\[#Wj`\]!`U`b`X`i`Y`b`j`f`c`b`a`Y`b`h`U`!`Y`b\[\]b`Y`Y`f\]b\[#gh`X`Y`b`h`\]Z`](#)
- Gd`Y`W`U`7`c`b`g`]X`Y`f`U`h`c`b` [\hfdg.##gh`X`Y`b`h`i`bgk`"YXi`"Ui`#`gd`Y`W`U`!`V`c`b`g`\]X`Y`f`U`h`c`b`](#)
- ;`Y`b`Y`f`U`Ub`X`D`f`c[`f`U`a`!`G`d`Y`W`Z`W`E`i`Y`g`h`c`b`g` [H`Y`B`i`W`Y`i`g`G`h`X`Y`b`h`<i`V`](#)
- 6`c`c`_`U`b`5`W`U`X`Y`a`]W5Xj`]g]b[`g`Y`g`g]c`b` [\hfdg.##U`d`"U`W` \]h`m`g`V`X`Y`X`i` `\]b\["V`c`a`#`g`V`X`Y`X`i` `Y`"d`d`3`c`k`b`Y`f`1`%-`\\$`&`\(+`*\)`](#)

8]gWU]a Yf

FZ[e`U`a`g`d`e`W`a`g`f`f` We`W`f`e`a`g`f`V`W`e`U`d`b`f`a` `a`X`U`S`e`e`W`e`S`f`f`Z`W`V`S`f`W`f`Z`W`5`a`g`d`e`W`A`g`f`f`W`e`b`g`T`f`e`Z`W`ž`F`Z`W` `S`f`g`d`W`a`X`U`S`e`e`W`e`_`S`k`U`Z`S`Y`W`V`g`d`f`Y`f`Z`W`F`W`d`_`S`X`W`d`f`Z`W`5`a`g`d`e`W`A`g`f`f`W`e`b`g`T`f`e`Z`W`ž`?`a`a`V`W`e`Z`a`g`V`T`W`U`a` `e`g`f`W`W`X`a`d`f`Z`W`g`b`f`a`V`S`f`W`U`S`e`e`V`W`e`U`d`b`f`a``e`ž` ;`X`f`Z`W`d`W`e`S`k`[`U`a` `e`]e`f`W`U`k`[`f`Z`W`V`W`e`U`d`b`f`a` `a`X`S`U`f`h`f`f`W`e`T`W`i`V`W`W`f`Z`W`G`[`h`W`e`b`f`k`f`_`W`S`T`W`S`V`f`Z`W`5`a`g`d`e`W`A`g`f`f`W`/`S`e`g`b`V`S`f`W`[`?`a`a`V`W`f`i`f`Z`W`V`W`e`U`d`b`f`a`[`f`Z`W`5`a`g`d`e`W`A`g`f`f`W`?`a`a`V`W`S`b`b`f`W`ž`

⇒a U[Y`7`f`Y`X`]h

A`_`Y` ;`U`"

7`F` ⇒`C`G`

7`F` ⇒`C`G`D`f`c`j`]X`Y`f`7`c`X`Y`.\$`\$`\$`-` ;` ;`

5W_bck`YX[Ya YbhcZ7ci bHfm

K`Y`U`W`_`b`c`k` `Y`X`[`Y`h`Y`6`Y`X`Y`[`U`d`Y`c`d`Y`k` \`c`U`f`Y`h`Y`f`U`X`]h`c`b`U` `W`g`h`c`X`]U`b`g`c`Z`h`Y`U`b`X`g`c`b`k` \`W`i`BGK`?`Y`b`g`]b[`h`c`b`W`U`a`d`i`g`]g`c`W`U`h`Y`X`"

