

ARTS1846

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8YHJ]`g.

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H\Y'YggUmd`Ub']g`XYg][bYX'hc'dfcj]XY'mci 'k]h\'h\Y'cddcfhi b]hm'hc'XYj Y`cd'mci f'g_]``g']b'd`Ubb]b['UbX Wbghfi Whb['YggUmg"'=i]g`XYg][bYX'hc'U``ck 'mci 'hc'YUgY']bhc'h\Y'a U'cf'YggUm'UggYgga Ybh''H\Y'YggUm d`Ub']g'Xi Y'cb': f]XUm'&) #\$*#&\$&\$'Uh'&' .' \$"'Mci 'a i ghigi Va]h'mci f'YggUm'd`Ub'j]U'h\Y'Hi fb]hjb'`]b_'cb A ccX'Y"

±0.7cfa Uhjcb cb '9ggUmei Yghjcbgžh\Y'A Uf_]b['fi Vf]Wh\Uhk Y'i gY'hc '[fUXY'YggUmd`UbgžUbX'h\Y'Hi fb]hjb ']b_7cf'gi Va]gg]cb 'Wb'U``'VY'7ci bX'cb 'A ccX`Y'i bXYf'"@YUfb]b['5Whjj]hjYg'#5ggYgga Ybhg'''

H\Y'YggUmd`Ub'g\ci`X'cih]bY'h\Y'Zc``ck]b[.

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- ("5bcih]bYcZh\YdfcdcgYXYggUmgghfiWhfYf]"Y"k\UhYUWXdUfU[fUd\#gYWhjcbk]``X]gWggŁ/UbX
-) " 5b 5bbcHJHYX 6]V]c[fUd\mcZh\Y a cghi gYZ `gci fWrg'mci `\Uj Y Wcbgi `hYX fUhYUghkk c gci fWrgŁ"

$9Id^U]b]b[^H\Lambda Y^UbbcHJHYX^V]V^]c[^HJM^M$

Uf[iaYbh'Hckf]hY'U'[ccX'dUdYf.'fUŁYId'U]b']b'h\Y']bhfcXiWh]cb'h\Y'WcbhYIhcZh\Y'eiYgh]cbz'mcif'VUg]WUf[iaYbhUbX\ck'h\Y'dUdYf'k]``dfcWYX'fh\Y'ghfiWhifY½fVŁ'g][bdcghh\Y'ghfiWhifY'h\fci[\cih\Y'dUdYfz]bX]WUh]b['h\Y'`c[]WU``dfc[fYgg]cb'Zfca'dUfU[fUd\'hc'dUfU[fUd\'UbX'gYWh]cb'hc'gYWh]cb'fgc'`]b_]b[gYbhYbWrg'Uhh\Y'YbXg'cZdUfU[fUd\g'UbX'gYWh]cbg'UfY']adcfhUbhz''

Dfcj]XY'dYfgi Ug]j Y'UbU`mg]g`cZYj]XYbW']b`gi ddcfficZmci f`Uf[i a Ybh']; fci bX`mci f`Uf[i a Ybh]b`h\Y h\YcfYh]WU`XYVUhYg`cZh\Y`X]gW]d`]bY"'Mci f`dUdYf`a i ghVY'dfcdYf`mfYZYfYbWX`UbX`UWWca dUb]YX`VmU V]V`]c[fUd\m''.H\Y'I B`GK `@YUfb]b[`7YbhfY'dfcj]XYg`U`fUb[Y`cZfYgci fWrg`hc`Ugg]ghk]h\`fYZYfYbW]b[ž Uj U]`UV`Y`Uh\hd.#k k k "`Wi bgk "YXi "Ui #cb`]V#YZ'\ha`"'+i]g`U`[ccX`]XYU`hc`d`Ub`UbX`XfUZhmci f`dUdYf`k Y``]b UXj UbW'''.Nci 'UfY`k Y`Wca Y`hc`gYY`a Y`Xi f]b[`Wcbgi `hUh]cb`\ci fg`hc`X]gW`gg`mci f`]XYUgž'd`Ubž`UbX`XfUZh"= k]``bchz`\ck Yj Yfz'fYgdcbX`hc`fYei Yghg`Zcf`fYgYUfW\`Ugg]ghUbWz`]"Y"''=k Ubhhc`k f]hY`UVci h`L'zk\Uhg\ci `X=fYUX3''.Nci `k]```VY`UggYggYX`cb`mci f`UV]`]mmhc`XYa cbghfUhY`fYgYUfW\`g_]``g/cb`gmbh\Yg]g`UbX`dYfgi Ug]j Y Uf[i a Ybhf]b`Vf]b[]b[`hc[Yh\Yf]XYUg`UbX`XUhU`Zfca 'gYj YfU``gci fWygtz'cb`ei U`]mmcZdfYgYbhUh]cb f]bWi X]b[`UWW fUhY`fYZYfYbW]b[tubX`cb`h\Y`WUf]mcZmci f`k f]h]b[`".Nci `k]```fYWY]j Y`U`[fUXYzk]h\`gca Y a]b]a U``ZYYXVUW_cb`mci f`fYgYUfW\`dUdYf"'H\Y`gdYW]ZJWWf]hYf]U`Zcf`UggYgga Ybh!'gYY`h\Y`WcffYgdcbX]b[a Uf_]b[`fi Vf]W!`]b`h\Y`Zc``ck]b[`gYW]cb"

fl cf'a cfY'[i]XUbWY'gYY. fPggUmUbX'5gg][ba YbhK f]h]b[fiUj U]`UV`Y Uh<u>\hdg.#ghi XYbh'i bgk "YXi "Ui #YggUmUbX!Ugg][ba Ybhk f]h]b[</u>'UbX''9ggUmK f]h]b[''Uj U]`UV`Y Uh

Hi fb]h]b'gYh]b[.'H\]g'Ugg][ba Ybh]g'gi Va]hhYX'h\fci [\'Hi fb]h]b'UbX'gh XYbhg'Xc'bchgYY'Hi fb]h]b g]a]'Uf]hmfYdcfhg"

5qqYqqa Ybh' . '9l Ua

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H\Y'9I Ua]bUhjcb'fYei]fYg'mci 'hc'Yb[U[Y'k]h\ 'WcbhYbhUWfcgg'h\Y'Wci fgY'k \]'Y'Ug_]b['mci 'hc XYa cbghfUhY'h\Y]f'UW\]Yj Ya YbhcZh\Y'k YY_`m`YUfb]b['ci hWca Yg"'±nk]```fYei]fY'h\Y'Wca d`Yhjcb'cZ`cb[Yf ghm`Y'Ubgk Yfgž'WcbhU]b]b['U'gY`YWfjcb'cZYggUmghm`Y'ei Yghjcbg'Zfca 'k \]W\ 'mci 'a i ghW\ccgY"'9I Ua]bUhjcb gWf]dhg'k]```VY'a Uf_YX'Vi hbchfYhi fbYX'hc'ghi XYbhg"'Ghi XYbhg'fYWY]j Y'U'bi a Yf]WU`[fUXY'UbX'WUb'fYei Ygh Zfca 'h\Y'GW\cc`'cZGcW]U`'GW]YbWYg'hc'gYY'h\Y]f'YI Ua]bUhjcb'dUdYf"'H\]g']g'h\Y'Z]bU`'UggYgga YbhZcf'h\]g Wci fgY"''

5XX]hcbU`XYHJ]q.

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Hi fb]h]b gYh]b[. `H\]g Ugg][ba Ybh]g gi Va]hhYX h\fci [\`Hi fb]h]b UbX gh XYbhg Xc bchgYY Hi fb]h]b q]a]`Uf]hmfYdcfhg"

5 hm/b XUbVW F Yei]fYa Ybhg

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 K \Uhjgʻʻa j`jhufmjbhyʻfj Ybhjcb'3 K \YbʻWbʻjh\Y`dʻjbʻVfjb[jb['UVci hdYUWY UbX'dfcgdYfjhm3'K \YbʻXcYgʻjhbch3 K \UhUfYʻgca YʻcZh\YʻWfjhjei YgʻcZʻa j`jhufm jbhyʻfj Ybhjcb'3

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Hi hcf]U``ei Ygh]cbg`UbX`XYhJ]`YX`k YY_IVMk YY_fYUX]b[`]g`a UXY`Uj U]`UV`Y`cb`A ccX`Y"`5``cZh\Y`ffYei]fYXfi fYUX]b[g`UfY`ZfYY`mUj U]`UV`Y`h\fci [\ `A ccX`Y`j]U`@Y[Ubhc/h\Y`fYghWUb`VY`UWWggYX`]b`\UfX`Wcdmh\fci [\ h\Y`]VfUfmcf`cb`]bY''`Nci `k]```VYbYZ]hZfca `VYWca]b[`ZJa]`]Uf`k]h\; cc[`YGW\c`Uf f\hd.#gW\c`Uf"[cc[`Y'Wca ŁUg`U_YmgYUfW\ Yb[]bY`Zcf`UWUXYa]Wdi V`]WUh]cbg`UbX`fYdcfhg"'Nci `WUb`gYh i d`h\Y`dfYZYfYbWYg`hc``]b_hc`h\Y`I BGK `@]VfUfmYj Yb`k \Yb`mci `UfY`bchcb`WJa di g"'; c`hc`; cc[`YGW\c`Uf2`gYh]b[g2``]VfUfm`]b_gžUbX`YbHYf`I b]j Yfg]mcZBYk `Gci h\`K U`Yg'`]b`h\Y`VcI `Zcf`'@]VfUfm'. Nci WJb`g][b`i d`Zcf`HUV`Y`cZ7cbhYbhg`fHC7Ł5`Yfhg`Zfca `h\Y`\ca YdU[Yg`cZfY`Yj Ubh'ci fbU`gžhc`fYWY]j Y`Ub Ya U]``k \YbYj Yf`bYk `Ufh]WYg`UfY`di V`]g\YX`]b`h\Uh'ci fbU`"`>ci fbU``k YVg]hYg`k]```cZhYb`WJffm]bZcfa Uh]cb cb`h\Y`a cghi]Yk YX`UbX`a cghW]hYX`Ufh]WYg/h\YgY`UfY``]_Y`mhc`VY`]bhYfYgh]b[`UbX`cZhYb`]bZi Ybh]U` Wcbhf]Vi h]cbg"; cc[`Y`GW\c`Uf`k]```U`gc`dc]bhmci `hc`Ufh]WYg`h\Uh\Uj Y`W]hYX`U`dUfh]W``Uf`Ufh]WY`UbX`\YbW k]```VY`fY`UhYX`hc`h\Y`hcd]W

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FYWca a YbXYX FYgci fWyg

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

Gh XYbhYj U`i Uhj Y`ZYYXVUW_`]g`[Uh\YfYX`dYf]cX]WU``mi g]b[ž'Ua cb[`ch\Yf'a YUbgž'I BGK g`7 ci fgY`UbX HYUW\]b[`9j U`i Uh]cb`UbX`=a dfcj Ya Ybhfl7 5 H9 ±'dfcWtgg": ±)Zcfa U``ZYYXVUW_`UbX`WUgg![YbYfUhYXbX

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Hi fb]h]b Gi Va]gg]cb

Image: Ybwei bhyfu'dfcv'ya k \yb'uhhya dhjb['hc'gi va]hmci f'Ugg][ba Ybhh\fci [\ 'Hi fb]h]bž'd'YUgY

Hy'Yd\cby'9| hy'fbu''Gi ddcfhcb'-',) '' ' ' %cf'Ya U]''h\Ya 'cb'Y! hy'fbu'hy'hgi ddcfh4 i bgk "YXi "Ui "''Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUft"'=Z'mci
UfY'i bUV'Y'hc'gi va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi 'hk]h\ 'Hi fb]h]b'mci 'a Um'Udd'mZcf'Ub'Y! hy'bg]cbž'Vi hmci
a i ghfYhJ]b'mci f'h]W_Yhbi a VYf'Zfca '9! hy'fbU''Gi ddcfhfU'cb['k]h\ 'Ubmch\Yf'fy'Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj]XYbW' 'hc'gi ddcfhmci f'Y! hy'bg]cb'Udd']WUh]cb"'=Zmci 'Ya U]''9! hy'fbU''Gi ddcfhmci 'k]'`
Ui hca Uh]WJ'`mfYW']j Y'U'h]W_Yhbi a VYfZ'Vi h]Zmci 'hY'Yd\cbY'mci 'k]``bYYX'hc'gdYW]Z]WJ'`mUg_'Zcf'cbY''
Hi fb]h]b'U'gc'dfcj]XYg'i dXUhy'g'cb'h\Y]f'gmghYa 'ghUh' g'cb'Hk]hyf''

; YbYfU`mž'UggYgga YbhiHug_g'a i ghVY'gi Va]hhYX'Y`YVWfcb]\WJ``mij]U'Y]h\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ba Ybh''=b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk]```VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k]h\U`hYfbUh]j Y'gi Va]gg]cb'XYHJ]`g"

cfi]bZcfa Uhjcbicbi\ckihcigi Va]hUgg][ba Ybhgicbi]bYij]UiA ccXiY.i\hdg.#gh XYbhi bgk "YXi "Ui #\ck! gi Va]hUgg][ba Ybha ccXiY

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

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=hWJbihU_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW_bck iYX[Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga]bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

• i bXYfgHJbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbh'Uhil BGK

5 WUXYa]W + DZcfa Uhjcb

: cf'YggYbhJU`gh XYbh]bZcfa UhJcb fY`UhJb[hc.

- fYei YghgʻZcfʻYl hYbg]cb/
- `UhY 'gi Va]gg]cbg '[i]XY`]bYg/
- fYj]Yk 'cZa Uf_g/
- I BGK < YU`h\ UbX GUZYmdc`]W[Yg/
- YI Ua]bUh]cb dfcW/Xi fYg/
- gdYWJU``Wcbg]XYfUHjcb']b'H\Y'Yj YbhcZ]``bYgg'cf'a]gUXj Ybh fY/
- gh XYbhYei]hmUbX'X]gUV]`]hm/
- UbX'ch\Yf'YggYbhJU`'UWUXYa]W]bZcfa UhJcbž'gYY