

ARTS1620

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7ci fgY⁻Cj Yfj]Yk

'GhJZZ'7cbhJWh'8YhJ]`g'

'7cbj Ybcfg'

BUa Y	9a U]`	5j U]`UV]`]m	@cWJhjcb	D\cbY
	`"Vi cbUbbc4 i bgk "YXi "Ui	•	A cfj Yb'6fck b F cca '&&&	d`YUgY WcbHUWfa Y j]U'Ya U]`

GWXcc``7cbHJWhi±bZcfa Uh]cb

GW.cc``cZ<iaUb]h]Yg'UbX'@Ub[iU[Yg

@cWUhjcb. GWkcc`CZZJWYž'AcfjYb'6fckb'6i]X]b[ž'@YjY``&ž'&),

CdYb]b['< ci fg. 'A cbXUm! ': f]XUmž'- Ua '!') da

D\cbY. 'Ž*%'&'-',)'%*,%

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9a U]`. \<u>U`4 i bgk "YXi "Ui</u>

7ci fgY 8YHJ] g

7 fYX]hDc]bhg * *

Gi a a UfmcZh\Y 7ci fgY

H\]g`Wci fgY`]g`U`VY[]bbYfg!`Yj Y```Ub[i U[Y`Wci fgY"`5```gh XYbhg`k \c`\Uj Y`\UX`gca Y`Yl dYf]YbW'`k]h\`h\Y`Ub[i U[Y`Cf`h\fci [\`dfYj]ci g`]bghfi Wf]cbža i ghZ]```]b`h\Y`d`UW'a Ybh ei YghJcbbU]fY`Uj U]`UV`Y`Uh\hdg.#\U`"Ufhg"i bgk "YXi "Ui #gh XYbhg#\ci fgYg#Ub[i U[Y!d`UW'a Ybhg"`\Ci k]`` bchVY`dYfa]hhX`hc`Ybfc``]b`U``Ub[i U[Y`Wci fgY`h\Uh]g`hcc`YUgmZcf`mci "`=Zh\]g`c\W\fgž`mci k]``VY fYei YghYX`hc`W\Ub[Y`mci f`Ybfc`a Ybh'

7 ci fgY @YUfb]b[Ci hWca Yg

- %" I gY`U'j YfmiVUg]WfUb[Y`cZj cWUVi `UfmiUbX`d\fUgYg`]b`#U`]Ub`UbX`Udd`m'U'ZYk 'g]a d`Y`fi `Yg`cZ [fUa a Uf"
- &" | bXYfgHJbX`UbX`i gY`h\Y`\\U`]Ub``\Ub[i U[Y`]b`g\cfh]bhYfUW]cbg`]b`ZJa]`]Uf`Yj YfmXUmig]hi Uh]cbg ' " \\XYbh]Zmigca Y`ZYUhi fYg`cZ\\U`]Ub`W`hi fY`UbX`gcW]Yhm"

HYUWX]b[GhfUhY[]Yg

H\Y'UddfcUW\']g'Wca a i b]WUh]j Yžk\]W\'a YUbg'h\Y'Wci fgY'ZcWi gYg'cb'h\Y'``Ub[i U[Yž'Wca a i b]WUh]j Y ghfUhY[]Yg'UbX'Wi'hi fU``ZJWcfg']b'XU]`mdYfgcb!hc!dYfgcb']bhYfUWn]cb"'@Ub[i U[Y'WUggYg'Zc``ck 'Ub]bhYfUWn]j Y'UddfcUW\'VUgYX'cb'[fci d'k cf_'UbX'dU]f'k cf_'UbX'U]a 'Uhh\Y'XYj Y`cda YbhcZUWWifUWnUbX Zi YbWh''H\Y'`Ub[i U[Y'cZWca a i b]WUh]cb'i gYX']b'h\Y'WUggfcca ']g'\d\U]Ubž'UbX'mci 'k]``'VY'YI dYWhYX'hc i gY'h\Y``Ub[i U[Y']b'U```WUgg'UWn]j h]Yg"

H\Y`Wci fgY`]g`VUgYX`cb`h\Y`df]b\V]d`Y`h\Uh`Ub[i U[Y`UbX`W`hi fY`UfY`]bhf]bg]\Wi`m`]b_YX`UbX`Zcfa `U`gc\V]U` gmghYa ž'h\YfYZcfY``Ub[i U[Yg`UbX`W`hi fYg`UfY``YUfbha cfY`YZZY\M]j Y`mk\Yb`ghi XYbhg`\Uj Y`h\Y`cddcfhi b]\m hc`i gY`h\Y``Ub[i U[Y`]b`WcbhYl H'`H\]g`]g`U\W]Yj YX`]b`\WUgg`h\fci [\`Wc``UVcfUh]j Y`dYYf`]bhYfU\M]cb`UbX`]b\Wi g]j Y`hYU\W\]b[`ghfUhY[]Ygž'U``gi ddcfhYX`VmU'j Uf]YhmcZUi h\Ybh]\WXcW a Ybhgž'hc[Yh\Yf'k]h\`cb!`]bY a UhYf]U`g`UbX`U\M]j]h]Yg"`\d\YhYU\X]h]cbž'h\Y`hYU\XYf'k]``YbXYUj ci f`hc`XfUk `cb`mci f`dYfgcbU``Yl dYf]Yb\Wg`]b`U \W]a UhY`cZa i hi U``fYgdY\Wi\YhKYYb`U```dUfh]\W]dUbhgž'k]h\`h\Y`U]a `cZa U_]b[`h\Y`YUfb]b[`Yl dYf]Yb\W a cfY`fY`Yj Ubhž'UbX`Yb[U[]b["

H\Y``YWi fYg`ZcWg`cb`jcWUVi``UfmUbX`[fUa a Uf`Vi hgca Y`W\`h fU``hcd]Wg`UfY`U`gc`]bWi XYX"

 $H \ Y'h hcf]U'g'k] ```[]j Y'mci'h Y'cddcfhi b]hmhc'XYj Y`cd'mci f'Wca aib]WUh]cb'g_]``g'UbX'hc'i gY'h Y'\\\ U'\]Ub [i U[Y']b'WcbhYl h'h hci [\ga U```[fci d\text{#dU}]f'k cf_"'7`Ugg'UWh]j]h]Yg'a Um']bWi XY'`]ghYb]b['hc'Ui X]c!j]gi U`a UhYf]U'`hc'XYj Y`cd'Wca dfY\Ybg]cb'g_]``gz'gdYU_]b['dfUWhW'cf'k f]h]b['g\cfhhYl hgz'YhW'$

+b cfXYf hc UWX]Yj Y hXY fYei]fYX dfc ZWYbWhž mci k]``bYYX hc Udd`mmci fgY`Z]b U gi ghU]bYX a UbbYf UbX hc '

5XX]h]cbU`XYhU]`g.

k YY_', . 'XUhY 'H65

5ggYgga Ybh'&'Zcfa Uh'j cWUVi `Ufm'Ž'[fUa a Uf'ei]n'Ž'`]ghYb]b['hUg_

Hi fb]h]b gYh]b[. H\]g]g bchU Hi fb]h]b Ugg][ba Ybh

5 ggg/Yggga Ytthh': JJ/XXYc

 $GhUfh `XUhY. \ \ \, \dot{} k \ YY_ \ \ \, \% \\$

8YHJ]`g. 'J]XYc'Ugg][ba Ybh'rc'VY`gi Va]hh'X`cb`]bY`1`&'rc') 'a]bi h'g"'Ghi XYbhg`k]```Z]`a 'h\YagY`j Yg'UbX fYd`mcfU``m'rc'U'gdYW]Z]Wei Ygh]cb"': YYXVUW_'k]``VY`[]j Yb']b'fi Vf]Wg'Ž'dYfgcbU``Wca a Ybhg"'Ghi XYbhg`WJb Wcbgi `h'h\Y``YWhi fYf'Zcf'Z fh\Yf'ZYYXVUW_"Z fh\Yf'ZYYXVUW_"Z fh\

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%"; fi ddc \pm U`]U \pm YU f&\$%(\times \@W\ ;fS\[S\ 7 ebd\ea

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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_Zmci YbWci bhYf'U'dfcV`Ya 'k \Yb'UhYa dhJb['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\ 'Hi fb]hJbž'd`YUgY
hY`Yd\cbY'9| hYfbU``Gi ddcfhcb'-',) '' ' ' %cf'Ya U]`'h\Ya 'cb'Y! hYfbU`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'' =Zmci
UfY'i bUV`Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZUi 'hk]h\'Hi fb]hJb'mci 'a Um'Udd'mZcf'Ub'Y! hYbg]cbžVi hmci
a i ghfYhU]b'mci f'hJW_Yhbi a VYf'Zfca '9! hYfbU``Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY`Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhmci f'Y! hYbg]cb'Udd`]WUhJcb'' =Zmci 'Ya U]`'9! hYfbU``Gi ddcfhmci 'k]``

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±iWUbihU_Yia Ubm Zcfa qžZfca iXYi]VYfUhYiW\YUh|b[ihciUVW]XYbhU`mWcdm]b[iZfca iUigci fWik]h\ci hiUW_bck iYX[Ya Ybh'i

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

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k]h\ci h'UW_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h'

⇒ Uddfcdf]UhY 'dUfUd\fUg]b[...7\Ub[]b['U'ZYk 'k cfXg'UbX'd\fUgYg'k \]'Y 'a cghmfYhJ]b]b['h\Y'cf][]bU` ghfi Wh fY 'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa Uh]cb'k]h\ci hUW_bck `YX[Ya Ybh'H\]g'U`gc Udd`]Yg']b'dfYgYbhUh]cbg'k \YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci hWfYX]hUbX'hc d]YW]b['hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk 'k \c`Yžk]h\ci hUddfcdf]UhY'fYZYfYbW]b["

7 c``i g]cb. 'k cf_]b['k]th 'cth Yfg'Vi hidUgg]b['cZZth Y 'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U``k cf_"'7 c``i g]cb'U`gc]bWi XYg'dfcj]X]b['mci f'k cf_'thc'Ubcth Yf'ghi XYbh'VYZcfY'th Y'Xi Y'XUHYZcf'Zcf'th Y'di fdcgY'cZth Ya

- i bXYfglUbX`mci f`f][\hg`UbX`fYgdcbg]V]`]h]Yg`Ug`U`gh XYbh'Uhi BGK
- VY'Uk UfY'cZd`U[]Uf]ga ž'Wcdmf][\hzil BGK 'Gh XYbh7cXY'cZ7cbXi WhUbX'5WWdhUV`Y'I gY'cZ I BGK '= H'F Ygci fWfg'Dc`]Wh
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj]ci f'Yl dYWhYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY 'gYfj]WYg'UbX `]bZcfa UH]cb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci žch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWhg'cZ9@G9'k]``\Y`d'mci 'a U_Y'h\Y'a cghicZmci f'ghi X]Yg'UhI BGK "'\\hd.#\gi \YY\\f\i \\XY\g''\\f\f\f\i \bgk\\\YX\i \"\J\\Y\\\f\\\]aY