



ARTS3270

FYZYWJb[`cb`<]ghcf]Yg`UbX`<]ghcf]Ubg.`7UdghcbY

HYfa 'Hk c''##'&\$%-

7 ci fgY⁻Cj Yfj]Yk

`GHJZZ`7cbHJWh`8YHJ]`g`

'7cbj Ybcfg'

BUa Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
; fY[cfmi9jcb	["Yj cb4 i bgk "YXi "Ui	6miUddc]bha Ybh	A 6 & '	- ' ,) `&(- &

GWX.cc``7cbHJWhi=bZcfaUhjcb

GWkcc``cZ<iaUb]h]Yg'UbX'@Ub[iU[Yg

@cWUhjcb. `GW.cc``C ZJWYžA cfj Yb`6fck b`6i]`X]b[ž@Yj Y``&ž&),

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

D\cbY. Ž*%&'-',) %*, %

: UI . 'Ž*%'&'-' ,) ', +\$)

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

7cifgY[·]8YHJ]`g

7 fYX]hDc]bhg[·]* [·]

Gi a a UfmcZh\Y'7ci fgY

Gi VYWh5fYU. <]ghcfm⁻⁻

7cifgY`@YUfb]b[`CihWcaYg

- %"Ya d`cm'UbX'Yj U`i UhY'a U^cf'df]bWjd`Yg'UbX'a Yh\cXc`c[]Yg'k]h\]b'h\Y'X]gWjd`]bY'cZ\]ghcfm'''
- &" XYa cbghfUhY 'U'W]hjWU``i bXYfghUbX]b[`cZh\Y`gcWjU``UbX`Yh\]WU``]a d`]WUhjcbg`cZdUfhjW``Uf dfcZYgg]cbU``dfUWfjWYg`Ua cb[`\]ghcf]Ubg
- ' "]XYbh]Zma i `h]d`Y`Zcfa g`cZ\]ghcfm]b`h\Y`di V`]WXca U]bž'UbX`Yj U`i UhY`h\Ya `]b``][\hcZdfcZygg]cbU` ghUbXUfXg`cZgW\c`Ufg\]d`UbX`Yh\]WU``VY\Uj]ci f
- ("XYg][b'UbX'WcbXi WhUb']bXYdYbXYbhfYgYUfWX dfc YWh
-)" fYZYWrii dcb`UbX`]bhY[fUhY`mci f`ck b`YIdYf]YbWYg`Ug`ghi XYbhg`cZ\]ghcfmUhil BGK

HYUWX]b[GhfUhY[]Yg

F UhjcbU'Y. 'H\YfY'UfY'bc 'YWi fYg']b'5F HG' &+\$"'H\Y'fc'Y'cZh\Y']bghfi Wtcf']g'tc'gmbh\Yg]gY'U'`Uf['Y'vcXmcZ X]j YfgY'a UhYf]U``Zcf'gh XYbhgž'YUX]b['X]gW gg]cbg'cZ\]ghcf]WD`'a Yh\cXc'c[mUbX']hg'dc`]hJWD`'UbX'gcWJU`]a d`]WUhjcbgž'UbX'Ugg]ghghi XYbhg']b'X]gW'fb]b['`]b_U['Yg'VYhk YYb'h\Y'Wti fgY'a UhYf]U`g'UbX'h\Y]f'dfYj]ci g ghi X]Yg']b'\]ghcf]WD``gi VYWia UhiYf"''H\Y'gYa]bUf'Zcfa UhcV']['Yg'5@@ghi XYbhg'hc'hU_Y'cb'Ub'UWi]j Y]bhY``YWi U``fc'Y']b'UbU'mg]b[''UbX'Wf]h]ei]b[''h\Y'Wti fgY'fYUX]b[gž'k \]W\'UfY'a U]b'm\]ghcf]c[fUd\]Wt Vt'`UVcfUhj Y`m]b'ga U```[fci dg''' 5F HG' &+\$`\Ug'hk c'Wta dcbYbhg.'f%2'5b'cb!WJa di g'a YYh]b['']b'U'hk c! \ci f'gYa]bUf'YUW\'k YY_''UWfcgg'h\Y'hYUW\]b['gYgg]cb/f&2'H\Y'Yei]j U'YbhcZUVci h+'\ci fg'cZ]bX]j]Xi U`cf Wt``UVcfUhj Y'k cf_'YUW\'k YY_'''H\]g']bWi XYg'U'a i gYi a 'j]g]hUbX'dfYdUfUhjcb'cZUb'YggUmUVci h]hž'UbX]bXYdYbXYbhfYgYUfW\']b'dfYdUfUhjcb'hc'k f]hY'U'fYgYUfW\'YggUmcb'U'ei Yghjcb'cf'dfcV'Ya 'cZh\Y'ghi XYbhg ck b'XYg][b''

HYUWX]b[`UbX`@YUfb]b[`GhfUhY[]Yg.`5g`h\]g`]g`U`gYa]bUf`WcifgYžcif`WcfY`hYUVX]b[`ghfUhY[m]g`hc`kcf_`k]h\ mci`]bX]j]XiU``mUbX`]b`gaU```[fcidg`hc`X]gW gg`UddfcUVXYg`hc`\]ghcfmžhc`fYZYWhcb`k\Uhimci`\UjY YUfbYX']b'h\Y'\]ghcfma U'cfz'UbX'hc'd'Ub'UbX'YI YW hY'nci f'fYgYUfW'dfc YWf'H\]g Wci fgY']g'XYg][bYX'hc a U_Y'<]ghcfma U'cfg'Uk UfY cZU'fUb[Y'cZ]a dcffUbhUddfcUWXYg'hc'k f]h]b['\]ghcfmz'UbX'U'gc'hc'h\Y]f'fc'Y Vch']b'g\Ud]b['ci f'i bXYfgHUbX]b['h\Y'dUghUbX']b'a ch]j Uh]b['dfYgYbhUW]cb"'⊕ YUWX k YY_mci 'k]'` X]gW gg'U'dUfh]W 'Ufz'W ffYbhgmY'cZ\]ghcfmcf'UWh]j]mcZ\]ghcf]Ubgz'hc[Yh\Yf'k]h']rg'gcW]U'`]a d`]WUh]cbg''⊕ h\Y'gYa]bUf'gYgg]cbgz'ei Ygh]cbg'UVci hh\Y'fYUX]b['g'k]'`YY'X]gW ggYX']b'ga U'``[fci dgz'UbX'h\Yb'mci f Ubgk Yfg'g\UfYX'Ua cb['h\Y'k\c'Y'WUgg/Uhh\Y'YbX'U'Z/k 'cZh\YgY'gUa Y'ei Ygh]cbg'k]``VY'[]j Yb'Ug'U'D# ei]n']b'cfXYf'hc'a ch]j UhY'fYUX]b['UbX'Yb['U[Ya Ybh]b'h\Y'X]gW gg]cb"'Hc']a dUfh]bg][\h]bhc`\]ghcfmg gcW]U' fc'Yz'h\YfY'k]``VY'Ub'YIYfW]gY'fYei]f]b['mci 'hc'UthYbX'cbY'cZU'Z/k 'XYg][bUhYX'a i gYi a 'YI \]y]ng'UbX'hc UbU'mgY']ng'fYdfYgYbHUh]cb'cZh\Y'dUghVch\`]b'hYfa g'cZh\Y'\]ghcf]WU'gWkc'Ufg\]d'cb'k \]WX']h]g'UUgYZź'UbX cZh\Y'XYa UbXg'd'UWX'cb'\]ghcfmVm]ng'di V']Wg'UbX']bgh]h'h]cbg''H\]ga'i gYi a 'YggUmUgg][ba Ybha UmVY Wéa d'YhYX']b'Wc''UVcfUh]cb'k]h'Ubch\Yf'ghi XYbhzYbUV']b['mci 'fc'g\UfWX'YggUmdfc'YWzmci 'k]``YI dYf]YbW' h\Y'Ug]WfUg_cZh\Y'\]ghcf]WU'`WUZhz'WYUh]b['U'ei Ygh]cb'UbX'kcbgffi W]b['Ub'UWci bhcZdUghYj Ybhg VUgYX'cb'Yj]XYbW'mci 'a i ghX]gWéj Yf'Zcfmci fgY'Z−]bWi X]b['h\Y'i gY'cZdf]a Ufmgci fW''XcW'a Ybhg'!! h\i g'YUfb]b['Zfgh\UbX'h\Y'dfcW'ggYg'UbX'WcbghfU]bg'g\Ud]b['ci f'd]Wh'fYgcZh\Y'dUgh'

ggYgga Ybh ggYgga YbhïHUg_g⁻

>i gh]WY UbX Dc`]WY A i gYi a fk YY_YbXg cb`mŁ

• 7]mcZG\UXckg. +bbYf 7]m 7f]a Y / A Um\Ya % &!% (,

BUh]cbU`AUf]h]aYAigYia.

- DUggYb[Yfg. H\Y`@cb[GYU'J cmU[Y'hc'U'BYk @UbX
- H\Y'8Uf]b['G\]d. H\Y'ghcfmicZ<A5G'JcmU[Yf"

5ighfU`]Ub'AigYia.

; Uff][UffUb[.:GYU'7cibhfmfB6.ih\]g'YI\]V]h]g'dUfhm\]ghcf]WU``UbX'dUfhm'Ubh\fcdc`c[]WU`Z'gc'ZcWg'cb h\Y`\]ghcf]WU``Y`Ya YbhgŁ

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hYX`h\fci [\`Hi fb]h]b`UbX`ghi XYbhg`Xc`bchgYY`Hi fb]h]b g]a]`Uf]hmifYdcfhg"

5ggYgga Ybh' . FYgYUfW '9ggUm

GHJfhXUHY. Bch5dd`]WUV`Y

@Yb[h\.`&)\$\$`k cfXg

8YhU]`g. &) \$\$`k cfXg`a]bž`a i ghYa d`cmidf]a Ufmigci fWYg"``Bi a Yf]WU``a Uf_`UbX`Wca a Ybhg`Ug`ZYYXVUW_`cb h\Y]f`YggUmg"``) \$i _`]bWi XYg`) `dc]bhg`Zcf`U`dfY`]a]bUfmiC i h]bY#DfcdcgU``k cfh\`) i _"``H\]g`]g`h\Y`Z]bU` UggYgga YbhZcf`UhhYbXUbVW`di fdcgYg"

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

FYei]fYa YbhgʻZcfʻh\YʻFYgYUfW\ʻ9ggUmik]``VYʻX]gW ggYXʻ]bʻh\YʻK YY_`%GYa]bUfžik]h\ʻUXX]h]cbU`]bZcfa Uh]cbʻdcghYXʻcbʻA ccX`Y"

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

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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

=Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UhYa dhjb['hc'gi Va]hmci f'Ugg][ba YbhN fci [\ 'Hi fb]hjbž'd'YUgY hY'Yd\cbY'9I hYfbU'`Gi ddcfhcb'-',) '' ' %cf'Ya U]`'h\Ya 'cb'YI 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'mYUfŁ'" =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'YI hYbg]cbž'Vi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU``Gi ddcfhfU`cb['k]h`Ubm'ch\Yf'fY`Yj UbhXcW a YbhgŁ'hc]bWi XY'Ug'Yj]XYbWi'hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUh]cb''`=Zmci 'Ya U]``9I hYfbU``Gi ddcfhimci 'k]``

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

D`U[]Uf]ga `]g`i g]b[`h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[`h\Ya `Ug`mci f`ck b"`=hWUb`hU_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b[`hc`UWW]XYbhU``mWcdm]b[`Zca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh'

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

7 cdm]b[..i g]b[.ih,Y`gUa Y`cf`j Yfmig]a]`Uf`k cfXg`hc`h,Y`cf][]bU``hYI h`cf`]XYU`k]h\ci hUW_bck `YX[]b[`h\Y gci fWF`cf`i g]b[`ei chUh]cb`a Uf_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[YgžUfhUbX`XYg][b`dfc´YWfgž'Ug`k Y```Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf*g`]XYUg`cf`k cfXg`k]h\ci hWfYX]h"

=bUddfcdf]UhY`dUfUd\fUg]b[..7\Ub[]b[`U`ZYk`k cfXg`UbX`d\fUgYg`k \]`Y`a cghmfYhU]b]b[`h\Y`cf][]bU` ghfi Whi 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]h ch Yfg Vi hdUgg]b[cZth 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_'hc Ubch Yf gh XYbhVYZcfY h Y Xi Y XUhYžcf Zcf'h Y di fdcgY cZh Ya

- i bXYfgHJbX'mci f`f][\hg`UbX'fYgdcbg]V]`]h]Yg`Ug'U'ghi XYbh'Uhil BGK
- VY 'Uk UfY 'cZd'U[]Uf]ga ž Wcdmf][\lž I BGK 'Gh XYbh7cXY 'cZ7cbXi WiUbX '5 WW dhUV'Y 'I gY 'cZ I BGK '=7 H F Ygci fW g'Dc']Wh
- VY Uk UfY cZh Y gHUbXUfXg cZVY Uj]ci f YI dYWYX cZYj YfmcbY]b h Y I BGK Wca a i b]m
- `cWUHY'gYfj]WYg'UbX']bZcfa UHjcb'UVci hI BGK 'UbX'I BGK '@VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci ž'ch\Yfg'k]``VY'bYk"'; U]b]b[`U'gc`]X'i bXYfgHJbX]b[`cZU``'h\Y fY`UhYX'UgdYWfg'cZ9@=G9'k]``\Y`d'mci 'a U_Y'h\Y'a cghcZmci f`ghi X]Yg'Uh'I BGK "' <u>\hhd.#gi VYWf[i]XYg'`]VfUfm'i bgk "YXi "Ui #Y`]qY#UVci hY`]qY</u>

5WUXYa]W=bZcfaUh]cb

: cf^{*}YgYbhJU^{*}gh XYbhJbZcfa UhJcb^{*}fY^{*}UhJb[^{*}hc.

fYei YghgʻZcfʻYl hYbg]cb/ `UhYʻgi Va]gg]cbgʻ[i]XY`]bYg/ fYj]YkʻcZa Uf_g/ I BGKʻ< YUʻh\ʻUbXʻGUZYhmdc`]WJYg/

