

# ARTS3061

# 7 ci fgY<sup>-</sup>Cj Yfj ]Yk

# GHJZZ7cbHJWh78YHJ]`g

#### 7cbj Ybcfg

| BUa Y            | 9a U]` | 5j U]`UV]`]m                  | @cWUhjcb                                   | D∖cbY        |
|------------------|--------|-------------------------------|--|--------------|
| ; fY['8c`[cdc`cj |        | ‰\$\$da cf`Vm<br>Uddc]bha Ybh | Fcca &\$+ž<br>FcVYfh<br>KYVghYf<br>6i]X]b[ | \$(&(*%\$%&' |

### GWXcc``7cbHJWhi=bZcfaUh]cb

GW&cc``cZh\Y`5fhg`UbX`AYX]U

Fcca '' &&ž'@Yj Y``' žFcVYfhK YVghYf`6i ]`X]b[`f] %(Ł

D\cbY.`f\$&Ł`- ' , ) `( , ) \*

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

K YVg]hY. <u>k k k "Ufhg"i bgk "YXi "Ui #gUa</u>

H\Y'GW\cc``cZh\Y'5fhg'UbX'AYX]U'k ci `X``]\_Y'hc'FYgdYWbZ ``m5W\_bck `YX[Y'h\Y'HfUX]h]cbU``7ighcX]Ubgž h\Y'6YXY[U``fPYbg]b[hcb'WJa digŁž; UX][U``fD]hm'UbX'5fh/ '8Yg][b'7Ua digYgŁ'UbX'h\Y'B[ibbUk U` dYcd'Y'fБighfU`]Ub'8YZYbW': cfW'5WJXYam]b'7UbVYffUŁ'cZh\Y``UbXg'k\YfY'YUW\'WJa dig'cZIBGK ']g `cWJhYX"

# 7cifgY<sup>·</sup>8YHJ]`g

## 7 fYX]hDc]bhg<sup>·</sup>\*<sup>·</sup>

## Gi a a UfmcZh\Y'7ci fgY

H\]gʻWci fgYʻdfcj ]XYgʻgca YʻdfUWjWJʻYl dYf]YbWf`]bʻj ]XYc!a U\_]b[`UbX`[]j Ygʻmci `Ub`i bXYfgHUbX]b[`cZhYYUg]WWcbWfdhgʻh\Uhi bXYf]Y`U`j ]XYc'dfcXi WfjcbžZfca `gWf]dhhc`ZjbU``W h'J ]XYc'DfcXi Wfjcb'U``ck gʻmci `hcdi h]bhc`dfUWjWf`gca Y`cZhY`hYcf]YgʻUbX`WcbWfdh U``a UhYf]U`gʻh\Uhmci `\Uj Y`Wcj YfYX`]b`mci f`dfYWfX]b[ ghi X]Yg"`Nci `k ]```\Uj Y`h\Y`cddcfhi b]mhc`WfYUhY`U`fUb[Y`cZg\cfhi ]XYc`k cf\_gʻk ]h`Ub`Ya d\Ug]gʻcb VcbWfdhi U``]bbcj Uhjcb"`Nci `UfY`YbWci fU[YX`hc``cc\_`Zcf`dfUWjWU``gc`i h]cbg`hc`h\YcfYh]WU``dfcV`Ya g WcbWfb]b[`Z]`a # ]XYc`h\Uhmci `a Um\Uj Y`YbWci bhYfYX`Xi f]b[`mci f`Z]`a `UbX`a YX]U`Wci fgYg"`Nci `k ]``VY ]bhfcXi WfX`hc`h\Y`VUg]WhYWb]WU``g\_]``gʻcZcdYfUhjb[`U`WJa YfUž``][\h]b[`žgWf]dh]b[`ždfY!dfcXi Wfjcb`d`Ubb]b[`ž YX]hjb[`UbX`dfYgYbHJhjcb"`H\Y`Wci fgY`U]a g`nc`]bWfYUgY`mci f`dfUWjWD``\_bck`YX[Y`UbX`Uk UfYbYgg`cZZ]`a `Ub[i U[YžgmYždfcWfggžUbX`hYWb]ei Y`Vmk UmcZVfUZhVUgYX`Z bWfjcbU``k cf\_g\cd`YI YfW]gYgž ]bXYdYbXYbhUggYa V`mUbX`U`gi VgfUbh]U``[fci d![YbYfUhYX'dfcXi Wfjcb`dfcWfgg"`H\Y`Wci fgY`YbWci fU[Yg Wc``UVcfUhj]Y`k cf\_]b[`dfUWfjWg`hc`U`dfcZygg]cbU``gfUbXUfX"

Disk Y Zjfghig] K YY\_gžmci f'dfcXi Wijcb'g\_]``g'k]``VY XYj Y`cdYX'UbX'WU``Yb[YX'h\fci [\`U'fUb[Y'cZ HYW\b]WU``YI YfWjgYg'UbX'U'gYf]Yg'cZcVghi Wijcbg" Mci 'k]``VY U'gc'fYei ]fYX'hc'XYj Y`cd'h\Y'gWf]dhUbX'dfY! dfcXi Wijcb'cZmci f'dfc'YWf' =b'h\Y'gYWcbX'dUfhicZh\Y'Wci fgYžk cf\_]b[`Ug'U'[fci d'mci 'k]```dfcXi WY 'hk c g\cfhiZ]`a g"'H\YgY'Z]`a g'k]```h\Yb'VY'W fUhYX'UbX'dfc[fUa a YX'Zcf'U'gdYWJU``gWfYYb]b[`Uhh\Y'YbX'cZhYfa " H\Y'gWfYYb]b[`cZU'fUb[Y'cZg\cfhiZ]Wijcb'UbX'ZJWh U``Z]`a g'k]```]bhfcXi WY'mci 'hc'h\Y'UfhicZh\Y'g\cfhiZ]`a " Mci 'k]``VY'YbWci fU[YX'hc'Wf]hJWU``mYj U`i UhY'h\YgY'Z]`a gžmci f'ck b'k cf\_'UbX'h\Y'k cf\_'cZch\Yfg'UbX'hc HYght\YcfYhJWD``dcg]h]cbg'k]h\'WfYUhJj Y'gc`i h]cbg'UbX'dfUWJWU``YI YfWJgYg"

### 7cifgY`@YUfb]b[`CihWcaYg

- %" 8Ya cbglfUhY h\Y`VUg]WWfUZhUbX`hYW\b]WU``g\_]``g`bYWfggUfmhc`a U\_Y`U`g\cfhij ]XYc`dfcXi Wf]cb`]b`U j Uf]YhnicZZcfa Uhg`UbX`Zcf`X]ZYfYbhid`UhZcfa g
- &" 5bU`mgY`g\cfhiZ]`a g`!`h\Y]f`ck b`UbX`ch\Yfg`ZcW g]b[`cb`ghfi Whi fYž]XYUgžhYW\b]ei YžghcfmhY``]b[ž `][\h]b[žgci bX`UbX`YX]h]b[
- ' " 8Ya cbglfUhY`Ub`Ui X]cj ]gi U``WfYUh]j ]hmUbX`XYj Y`cd`Wf]h]WU``h\]b\_]b[ `U`cb[ `k ]h\`h\Y`Uddfcdf]UhY g\_]``g`cZYI dfYgg]cb
- ("8YjY`cd`g\_)``g`UbX`glfUlY[]Yg`]b`d`Ubb]b[`UbX`h]aY`cf[Ub]gUh]cb
- )" 9I dfYgg'U'XYYdYf'i bXYfgHJbX]b[ 'cZgWfYYb'W `h fY'UbX'`Ub[ i U[ Y'h\fci [ \ 'dfUWfJWU``UbX'WfYUhJj Y Udd`]WUhJcb
- \*"Kcf\_Wc<sup>\*</sup>`UVcfUhj Y`mUbX'i bXYfhU\_Y'U'fUb[Y'cZWfYk fc`Yg'hc'U'dfcZygg]cbU``ghUbXUfX
- +" BY[ch]UhY`YZYWhjjY`m
- , "91 \]V]hU`fUb[Y`cZg\_]``g`]b`fYgYUfW\]b[`UbX`XYj Y`cd]b[`Ui X]cj ]gi U``WcbWfdhg

### HYUWX]b[ GhfUhY[]Yg

K \]'Y 'h Y ']bglfi Wrcfg'Zcf'GWfYYb DfcXi Wr]cb'==fJ ]XYc DfcYWrEfYWc[b]gY'h UhbchU```gh XYbhg'i bXYftU\_]b[ h]g'Wci fgY'k ]```gYY\_'hc'k cf\_']b'h Y 'Z]`a 'UbX'a YX]U']bXi ghf]Ygž'h]g'Wci fgY']g'glfi Wri fYX'Ug'U'dfcXi Wr]cb Wci fgY'k ]h '\][\``Yj Y``YI dYWrUh]cbg'cZdfcZygg]cbU``WcbXi WržfcVi gh[fci d'XmbUa ]Wgž'cb[c]b['Zcfa Uh]j Y ZYYXVUW\_'UbX'U'gi ddcfh]j Y'Ybj ]fcba YbhZcf'WfYUh]j ]mt'A mthYUW\]b['d\]`cgcd\m]g'hc'dfcj ]XY'U``'h\Y bYWrggUfma UhYf]U'gžYbj ]fcba YbhUbX'ZJWj`]hUh]cb'hc'U``ck 'ghi XYbhg'hc'gc'j Y'dfcV'Ya g']b'U'WfYUh]j Y`UbX dfU[ a Uh]Wa UbbYf"'=YbWci fU[ Y'gY'ZXYhYfa ]bUh]cb'UbX'bY[ ch]Uh]cb'g\_]``g']b'dfcj ]X]b['gc`i h]cbg'Zcf dfU[ a Uh]Wwcbg]XYfUh]cbg'h,Uhk ]```]bj Uf]UV'm]a dUWricb'WfYUh]j Y'XYW]g]cbg'''H\]g'Wci fgY'XcYg`Uj Y'\][ \ hļa Y XYa UbXgʻci hg]XYʻcZWUggʻhļa Y UbXʻVi hk ]h ga Ufhihļa Y a UbU[ Ya YbhU``ghi XYbhgʻ\Uj Y h Y cddcfhi b]hmhcʻ[ U]bʻj U`i UV`Y`YI dYf]YbWYg" A mhYUWX]b[ `ghfUhY[ m]gʻhcʻghfi Whi fY`U`bi a VYf`cZ\_Ymg\_]``g VUgYX`YI YfW]gYgʻ]bʻh Y`Z]fgh\U`ZcZh Y`hYfa 'hc`XYj Y`cd`ghi XYbhg'`WfUZhg\_]``gʻk ]h a cfY`hJa Y`Uj U]`UV`Y`h Ub ]bʻdfYj ]ci gʻWci fgYgʻh YfYVmXYa UbX]b[ `\][ \Yf`ei U`]hmici hWca Yg"`=gYY\_`hc`YbWci fU[ Y`ghi XYbhWfYUh]j ]hm UbX`Yb[ U[ Ya Ybhik ]h `W]bYa Uh]W\]ghcfmh\fci [ \`fcVi gh[ fci d`Wc``UVcfUh]cbgʻhc`dfcXi Wf`k cf\_`cZU`\][ \ ghUbXUfX`h,Uh]gʻ]bhYbXYX`hc`VY`gi VgYei YbhmidfYgYbhYX`UhZ]`a `ZYgh]j U`g"``

H\]gʻWci fgYʻ]gʻZļfa `mg]h UhYXʻ]bʻUʻ\UbXg!cbʻUddfcUWX 'hcʻgWfYYbʻghi X]YgʻVmYI d`cf]b[ʻUʻfUb[YʻcZ dfcXi Wf]cbʻUddfcUWXYgʻ]bʻhYʻg\cfhža i `h]!d`UhZcfa `bUffUh]j YʻZcfa Uh'``Ghi XYbhgʻk \cʻU]a 'hcʻWcbh]bi Yʻk ]h hYʻghi XmcZZ]`a ža YX]UʻUbXʻWca a i b]WUh]cbgž'dUfh]Wʻ`Uf`mh\cgY`k ]h\`UʻgdYWJU`]bhYfYgh]bʻW``hi fU` fYdfYgYbhUh]cbʻUbXʻh\Yʻghi XmcZZ]`a 'h\YcfmžghmYgž'[YbfYgʻUbX`\]ghcfmk]``VYbYZ]hZfca 'h\]gʻWci fgY''`H\Y Wci fgY`YbVci fU[YgʻWc``UVcfUh]j Yʻk cf\_]b[ʻdfUWf]Wfg"'H\YʻYI YW h]cbʻcZWfYk 'fc`YgʻhcʻUʻdfcZfgg]cbU` ghUbXUfX`k]``VY`YI dYWfYX`UgʻUʻa ]b]a i a `UbX`k]``VY`Yj U`i UhYX`U`cb[`k`]h\`fkY`WcbWfdhi U``ei U`]hmcZh\Y Z]bU``dfc´YVhUbX'h\Y`WUdUW]micZh\Y`WfYk 'hc`a U\_Y`W\Ub[YgʻZfca 'h\Yfci [\`W hhc`h\Y`Z]bU``XfUZf' 5ggYgga Ybh

gUZYhmiUbXik Y``!VY]b[icZmcifWc``YU[iYg"'J]XYcidfcXiWf]cbi]giUWc``UVcfUh]jYidfcWfggiUbXi]hi]giYggYbh]U` h\Uhimci `UfY`di bWi U`žfY`]UV`Y`UbX`a U]bHJ]b`U`\][\``Yj Y``cZ[ fci d`fYgdcbg]V]`]m'`@UhYbYgg`cf`UVgYbW Zfca 'k cf\_g\cdg'UbX'`YWi fYg'k]```i bXYfa ]bY'mci f'dcg]h]cb']b'h\Y'Wca a i b]micZZ]`a a U\_Yfg'' 5VgYbWY'cf hUfX]bYgg`]b`UhhYbX]b[`dfcXiWh]cb`[fcid`aYYh]b[g`aUmfYgi`h]b`YIdi`g]cb`Zfca`h\Y`[fcid`k]h\`giVgYeiYbh UqqYqqa YbhdYbU'hlYq`flY"mci a UmZJ)`h\]q'Wca dcbYbhcZh\Y'Wci fqYŁ"5q'U'dfcXi Wljcb'i b]hžGWfYYb DfcXi Wijcb = ]g U'ha Y ]bhYbg]j Y Wci fgY "H\YfY ]g Ub Uggi a dhjcb h\Uha Ubmik cf\_g\cd YI YfWgYg UbX hYWXb]WU``g\_]``g`k]``VY`Wcad`YhYX`cf`XYjY`cdYX`cihg]XY`cZWUgg`h]aY"`GWfYYb`DfcXiWf]cb`==WcifgY Uggi a Yg'h Uhigh XYbhg'k [```]bj Yghig][ b]ZWUbhYbYf[ mUbX'h]a Y'ci hg]XY'cZh Y'U``cWUhYX'WUggYg'hc'k cf\_]b[ cb h Y]f Wc UVcfUhj Y dfc Xi Who bg" = h]g i d hc h Y [fci dg hc bY[ch]UhY a YYhb[ UbX k cf\_b[ h]a Yg" Ghi XYbhgʻk ]``VYʻUggYggYXʻcbʻh\Y]f``Yj Y``cZ[ fci dʻdUfh]W]dUh]cbʻUgʻk Y```Ugʻcbʻh\Y``Yj Y``cZdUfh]W]dUh]cbʻh\Ym X]gd`Umi]b`k cf\_g\cd`YI YfW]gYg`UbX`X]gW gg]cbg"`∉mci `UfY`UVgYbhmci `a i ghidfcj ]XY`U`[ ccX`fYUgcb VUW\_YX'i d'VmXcW a YbHUhcb"'H\]g'Wca a ]ha Ybh]g'bYWggUfmhc']bgh]``U'g]a ]`Uf'W `hi fY'hc'h\Y'dfcZygg]cbU` Zia "UbX'a YX]U"]bXi ghfmik \YfY'di bWi U"]miUbX'dfYdUfUh]cb'df]cf'hc "WU```h]a Y"]g'Z bXUa YbHJ``Ug']g fYgdcbg]V]`]mihc`mci\_f`hYUa\_'a\_Ya\_VYfg`UbX`k\_\YfY`h\Y`'k\_cf\_'`]g`U`k\_Umg`UVcj\_Y`dYfgcbU``]ggi\_Yg`UbX`gcfh]b[ ci hWfYUhji Y`X]gU[ fYYa Ybhg`]g`dUfhcZh\Y`dfcWfgg"`+b`cfXYf`hc`UW\]Yj Y`cdh]a U`ci hWca Ygžmci `k ]``bYYX`hc HU\_Y'Ub'UWAji Y'UbX'fYgdcbg]V'Y'dUfhi]b'k cf\_g\cd'X]gW gg]cbgžWc``UVcfUhji Y'dfc'YWag'UbX'ch\Yf'UggcW]UHYX UWMjjh/Yg" 5 a cb[ h\Y WfhYf]U Zcf UggYgg]b[ h\Y ei U) micZmci f UWMj Y Yb[ U[ Ya YbhUfY. F YgdcbgYg hc h\Y ]XYUg`X]gW ggYX`]b`h\Y`k cf\_g\cdg`UbX`gWfYYb]b[ g

5Wij Y'Wc``UVcfUhjcb'k]h\`mci f'Wc``YU[i Yg'cb'[fci d'k cf\_'k \YfY'ck bYfg\]d'cZWfYUhjj Y'WcbhYbh']g'g\UfYX

7 fYUhji Y`gc`i hjcbg`hc`k cf\_g\cdg`YI YfWjgYg

5hhybXUbWy`UbX`di bWhi U`]hm

DfcZYgg]cbU``Uhhhi XY

5V]`]mihc 'lfUbg`UhY 'ZYYXVUW\_'UbX']bWcfdcfUhY ']bhc 'mci f'k cf\_

7c``UVcfUh]cb

5```ghi XYbhg`k]```VY`Ug\_YX`hc`gY`Zcf[Ub]gY`]bhc`[fci dg`cZh\fYY`hc`Z]jY`Uhij Uf]ci g`ghU[Yg`cZh\Y`k cf\_g\cd dfcW/gg"'8i f]b[ 'h\Y'Wci fgYžgh XYbhg'k ]``VY'Ug\_YX'hc'Wcbhf]Vi hY'hc'h\Y'[ fci d'dfc'YWhVmdYfZcfa ]b[ gdYWJZJWfc`Yg`fY`UhYX`hc`WJa YfUž'gci bXž'YX]hjb[ž'dfcXi Wjb[`UbX`X]fYWhjb["`J]XYc`dfcXi Whjcbg`UfY Wc``UVcfUhj Y'dfcW/ggYg'UbX']h]g']a dcffUbhih\Uhimci 'XYj Y`cd'h\Y'bYW/ggUfmig\_]``g'Zcf'YZYWjj Y'h/Ua k cf\_ž Wcaaib]WUHjcb:UbX:WcbZ]WifYgc`iHjcb"'≠i]g:YggYbHjU`:h\Uhmci:UHYbX:U``:h\Y:d`Ubb]b[žX]gW gg]cb:UbX:dfY! dfcXiWjcb'a YYhjb[g'h\Uhmci 'UffUb[Y'Ug'U'[fci d"'H\Y'Zcfa U''FYgcbUbWY'A YYhjb[']g'U'dfY!dfcXiWjcb dfcW/gg/h/Uhjg/U/Wci fgY/fYei ]fYa YbhUbX/k ]``bYW/gg]hUhY/U'gdYWJU`a YYhjb[/UffUb[Ya Ybhk]h/mci f/[fci d UbXimci fih hcf": #i]gih YifYgdcbg]V])]micZh Yi[fci dihciUffUb[Yih]gik]h imci fih hcf": ZWca a i b]WUh]cbgiVfYU\_ Xck b k ]h ]b h Y [ fci dž]h]g i d h h Y [ fci d h 'Z]bX U gc'i h]cb h a YX]UHY h ]g dfc W gg ]b cfXYf h UW ]Y j Y U k cf\_]b[ 'ci łWca Y"'≠i]g']a dcfłUbhih Uhih Y'[ fci d'bch]Zmih Y]f'h hcf'cf'Wci fgY'Wcbj Ybcf'cZgi W. WfW a ghUbWrg UbX fYei YghUgg]ghUbWr]b U a YX]Uh]cb dfcWrgg" 1 `h]a UhY mih Y Z[bU` dfc YWi]g U [ fci d YI YfWjgY" H\Y`]bhYfYghg`cZh\Y`[ fci d`UbX`h\Y`dfc^YWik ]``VY`d`UWYX`UVcj Y`]bX]j ]Xi U``UYgh\Yh]WXYg]fYg" H\]g`]g`Ub`cddcfh`b]lmiZcf`U```dUfh]WdUbhg`hc`XYj Y`cd`h\Y`gi VhY`g\_]``g`cZbY[ ch]Uh]cb`UbX`WfYUh]j Y dYfgi Ug]cb<sup>-</sup>UbX<sup>-</sup>hc<sup>-</sup>YY<sup>-</sup>lc<sup>--</sup>Yhi[c<sup>-</sup>cZ]XYUg<sup>-</sup>YUg]<sup>-</sup>mk \]Y a U]bHJ]b]b[<sup>--</sup>U<sup>+</sup>h][ \hZcW g<sup>-</sup>cb<sup>-</sup>h\Y<sup>-</sup>WcbW/dh<sup>-</sup> FY[i`Uf`UbX`cb[c]b[`]bXYdYbXYbhgh XmžfYUX]b[žbchY!hJ\_]b[žgWf]VV`]b[`UbX`WcbWYdh U`]g]b[`UfY YggYbhJU``WcadcbYbhg`cZh\]g`WcifgY"'H\]g`]g'U'WcifgY']b'WfYUhJj ]hmUbX'h\]g'fYei]fYg'X]gWJd`]bY'UbX YghUV`]g\]b[`'U`f][cfcig`]aU[]bUh]jY`dfUWfWY''']h]g`Ub`YIdYWUh]cb`h\Uhh\Y`ghiXYbhg`k]```WcbXiWhh\Y]f`ckb fYgYUfWX VUgYX cb \_\_bck `YX[ Y [ U]bYX ]b : ]`a 'Ghi X]Yg" Mci 'UfY YI dYWYX hc 'VYWca Y ZJa ]`]Uf k ]h\ h\Y hYVXb]WU``UbX`WfYUh]jY`kf]h]b[g`]b`h\Y`Z]Y`X`h\fci[\`fY`YjUbhifYUX]b[g`UbX`jUf]cig`cb`]bY`hihcf]U`g`]b`cfXYf hc"h\]b\_"UVci\_hih\Y`gdYWJZWWfUZhg\_]``X]gW ggYX`UbX`ghUfhih\]b\_]b[\_"cZ\ck\_"mci\_"k\_ci\_`X`UXUdhih\]g"hc"mci\_f

5ggYgga Ybh'₩f]hYf]U.

€j Ybhj Yžcf][]bU``UbX`fcVi ghYb[U[Ya Ybhk]h`]XYUg

FYgdcbgY<sup>-</sup>hc<sup>-</sup>\_Ymih\Ya Y

9ZYW1jjY'dYfZcfaUbWY'cZWfYk'fc`YfgŁ

9a chjcbU``]a dUWrcZZj`a fgŁ

7 YUFXfUa UhjWghfi Whi fY UbX bUffUhji Y XYj Y cda Ybh

Cf][]bU``fYgdcbgY`hc`ghmY`UbX`ghfi WhifY

5ddfcdf]UhY`dfY!dfcXi Wijcb`XcW a YbHUhjcb'/ `dfcWYgg

@AG:YYXVUW\_

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

5ggYgga Ybh' G\cfhZ]`a

GHJfhXUHY. Bch5dd`]WUV`Y

@Yb[h\.id'hc'+'a]bi hYg``cb["'K f]hYb'aUhYf]U``UVci h'%\$\$\$'k cfXg

8YHJ]`g.

; fcidDfcYWh

=b!WUgg`gWfYYb]b[ 'UbX`@A G`ZYYXVUW\_

#### 5XX]h]cbU``XYhJ]`g.

: c``ck ]b[ 'h\Y`D]HW\]b[ 'cZmci f'dfc'YWž[ fci dg'k ]``VY`gY`YWYX"'K cf\_]b[ ']b`ga U``dfcXi Wf]cb`[ fci dgžmci k ]``VY`U``cWUHYX`U`WfYk 'fc`Y`UbX`fYei ]fYX`hc`k cf\_`Wc``UVcfUH]j Y`mhc`XYj ]gYžfYgYUfW\žd`Ubžg\cchUbX`YX]h U`bUffUH]j Y`mVUgYX`g\cfhZ]`a 'fa UI "``Yb[ h\`+`a ]bi HYgŁ''Gh XYbhg`k ]```VY`Ug\_YX`hc`Wca d`YH`U`) \$\$`k cfX gY`ZYj U`i UH]cb`Zcfa 'UbX`U`dYYf`fYj ]Yk 'Zcfa 'UhH\Y`Wca d`YH]cb`cZh\Y`dfc'YWiUg`k Y```Ug`Ub`]bX]j ]Xi U``m k f]HYb`) \$\$`k cfX`dfc'YWfYdcfH''H\]g']g'h\Y`Z]bU``UggYgga YbhHUg\_"'Gh XYbhg`fYWY]j Y`Wcbg]XYfUV`Y Wcbgi `HUH]cb`UbX`Zcfa UH]j Y`ZYYXVUW\_Xi f]b[ 'h\Y`dfcWYgg`cZdfc'YWiXYj Y`cda YbhUbX`cfU``UbX`k f]HYb ZYYXVUW\_cb`H\Y]f'dfc'YWg`Uhgi Va ]gg]cb`UbX`UZhYf`dfYgYbHUH]cb`UhH\Y`Z]bU``gWfYYb]b[ 'b][ \H'

: ]`a `H\Ya Y. `HC `69`897 =898 `=B `K 99? `%

5XX]I]cbU`XYHJ]`g. Ga U```dfcXi WI]cb`[ fci dg`k ]``YY`gY`YWIYX`lc`XYj Y`cd`U`gWI]dhZcf`dfcXi WI]cb`h.Uh YI Ua ]bYg`h.Y`Wci fgY`h.Ya Y`ffc`YY`X]gW ggYX`]b`WUggŁ''Mci `UfY`YbWci fU[ YX`lc`k cf\_'k ]h.`U`gWI]dhk f]lhYb Ug`dUfhcZh.Y`gWI]dhk f]lh]b[ `Wci fgY`cf`Ub`UXUdHJI]cb`cZUb`YI ]gh]b[ ``]hYfUfmk cf\_"`Nci `a UmWX.Ub[ Y`cf`UXUdh h.]g`gWI]dhhc`fYgdcbX`lc`dfcXi WI]cb`fYei ]fYa Yblg'''Mci `a UmUXX`a cfY`X]U`c[ i Y`]ZfYei ]fYX''7 fYk `fc`Yg`k ]`` VY`U``cWJhYX`UbX`mci `k ]```VY`fYei ]fYX`lc`k cf\_`Wc``UVcfUh]j Y`mlc`XYj ]gYžfYgYUfWXžd`Ubž'g\cchžUbX`YX]h mci f`bUffUh]j Y`fa UI ]a i a ``Yb[ h.`+`a ]bi hYgŁ'''Nci `k ]``VY`YI dYWIYX`lc`Udd`mU```h.Y`HYW.b]WU``UbX h.YcfYf]WU``\_bck`YX[ Y`h\Uhmci `\Uj Y``YUfbhXi f]b[ `mci f`Z]`a `ghi X]Yg''`Mci `k ]```VY`U``cWJhYX`lc`U'[ fci d UWWcfX]b[ `lc`mci f`dfYZYffYX`WIYk`fc`Yg`UbX`mci f`dfYZYfYbWI`Zcf`U`gdYW]Z]Wdfc`YWI'`±i]g`YggYbf]U``h\Uhmci glUfh[ YbYfUh]b[ `]XYUg`Zfca`K YY\_`CbY`UbX`Wca a i b]WJh]b[ `h.Ya`lc`mci f`k cf\_g\cd`[ fci d`gc`h\Uhih.Y` a cghYb[ U[ ]b[ `dfc`YWg`WJb`YY`gY`YWhX`UbX`a UXY''

McifaUf\_'k]``VY'aUXY'id'cZh\Y'YjU'iUh]cb'cZmcifZ]`a žmcif'Wf]h]WU``UbU`mg]g'cZmcif'Z]`a 'UbX'mcif dYfZcfaUbWY'cZmcif'XYg][bUhYX'WfYk'fc`Y''

5 'ei U`]hmWhcZmci f`Z]`a 'bYYXg'hc'VY'dfYgYbhYX'hc'hXYWfUhcf]U`'hYUa 'Vm'&da ': f]XUm'&' '5df]`"'Nci f`h hcf a i ghg]hY'mci f`dfc'YWfi]b'hXY'Z]bU``k YY\_'hc'dfcj ]XY'mci 'k ]h\'Z]bY'WhUbX'Wc`ci f`[fUX]b['UbX'gci bX'a]I]b[ ZYYXVUW\_'VYZcfY'mci f`Z]bU``gi Va]gg]cb'UbX'hXY'di V`]WdfYgYbfUh]cb'cb'&, '5df]`

**Gi Va ]gg]cb`bchYg**.`D`YUgY`gi Va ]hj ]U`A ccX`Y`U``]b\_`hc`mci f`Z]`a `U`cb[`k ]h\`U`Vf]YZWf]h]WU``UbU`mg]g`cZ mci f`dfc YWhif) \$\$`k cfXgE'UbX`U'dYYf`UbX`gY`ZfYj ]Yk `cZmci f`WfYk `fc`Y

Hi fb]hjb'gYhjb[.'H\]g']g'bchU'Hi fb]hjb'Ugg][ ba Ybh

### 5HYbXUbW/FYei]fYaYbhg

Ck]b[`hc`h\Y`bUhifY`cZh\Y`dfcXiWhjcb`dfcWyggž`UhY`Uff]jU`g`UbX`YUf`miXYdUfhifYg`k]``BCH`VY`UWWYdhYX" Mci A I GH VY UV Y hc UhhybX U YX k cf\_q\cdg UbX [ fci d a YYhb [ g" A U\_Y UffUb [ Ya Ybhg BCK ] b cfXYfhcXcigci-mciiik]``VYjYfmVigm]b5df]`UbXAUm"MciiWUbbchWcadYhYhAgWciifqYk]h\cih di bWi U`]mžcf[Ub]nUh]cb'UbX'U'dfcZygg]cbU``Uh]h XY'k]h U`\][\'Wca a]ha Ybhhc'mci f'gUZyhmUbX'h Y gUZYhmUbX'k Y``!VY]b['cZmcif'Wc``YU[iYg"'J]XYc'dfcXiWf]cb']g'U'Wc``UVcfUhjjY'dfcWfgg'UbX']hi]g'YggYbhJU` h\Uhmci `UfY`di bWi U`žfY`]UV`Y`UbX`a U]bHU]b`U`\][\``Yj Y``cZ[ fci d`fYgdcbg]V]`]m'`@UhYbYgg`cf`UVgYbW Zfca k cf\_g\cdg'UbX``YWi fYg'k]```UhfUWia Uf\_b['dYbU`h]Yg"`5VgYbWFcf`HJfX]bYgg']b`UhHYbX]b['dfcXi Wijcb [fci d'a YYhb] q'a UmfYqi `h]b YI di `q]cb Zca `h\Y [fci d'k]h\ qi VqYei YbhUqqYqqa YbhdYbU`h]Yq f[Y"'mci a UmZJ] h, ]g Wea debYbheZh Y Wei fgYŁ" 5g U dfeXi Wijeb i b]hž J [XYe DfeYWi]g U hja Y [bhYbg]j Y Wei fgY" H\YfY`]q`Ub`Uqqi a dhcb`h\Uha Ubmk cf q\cd`YI YfWqYq`UbX`hYW\b]WU``q ]``q'k ]```VY`Wca d`YhYX`cf XYj Y`cdYX'ci hq]XY'cZWUqq'Ha Y"'H\Y'J ]XYc'Dfc'YWhWci fqY'Uqqi a Yq'h\Uhiqh XYbhq'k ]```]bj Yqhiq][ b]ZWUbh YbYf[mubXih]a Yici hg]XYicZhXYU`cWuhYXWUggYgihcik cf\_]b[icbihXY]fWc``UVcfUh]jYidfcXiWh]cbg"i=h]giidihc h\Y`[fci dg`hc`bY[ch]UhY`a YYh]b[`UbX`k cf\_]b[`h]a Yg"`Gh XYbhg`k]``VY`UggYggYX`cb`h\Y]f``Yj Y``cZ[fci d dUfhjWjdUhjcb`fh\UhijbWi XYg`di bWi U`jmiUbX`Yb[U[Ya YbHzUg`k Y```Ug`cb`h\Y``Yj Y``cZdUfhjWjdUhjcb`h\Ym X]qd`Um]b`k cf\_q\cd`YI YfWqYg`UbX`X]qW qq]cbg": cf`U`[ fUXY`hc`VY`Uk UfXYXz`mci f`UhhYbXUbWY`Uh'U```h\Y qYa]bUf#YWiffYqžqWfYYb]b[qžkcf\_q\cdqUbXmcifWfYUh]iY[fcidaYYh]b[qaiqhVYWcadfY\Ybq]iY"-₹ mci 'UfY'UVgYbhmci 'a i ghdfcj]XY'U [ccX'fYUgcb'VUW\_YX'i d'VmXcW a YbHUhcb"'H\]q'Wca a ]ha Ybh]q bYWggUfmirc ]bgh]``U'g]a [`Uf'W `h fY'rc h\Y'dfcZygg]cbU``Z]`a 'UbX'a YX]U']bXi ghfmik \YfY'di bWi U`]miUbX dfYdUfUhjcbidfjcfihciWU```hja YijgiZ bXUa YbhU``UgijgifYgdcbg]Vj`jhmihcimci fihYUalia Ya VYfqiUbXik \YfYih\Y 'k cf\_']g'U'k Umg'UVcj Y'dYfgcbU``]ggi Yg'UbX'gcff]b[ 'ci h₩fYUh]j Y'X]gU[ fYYa Ybhg`]g'dUfhcZh\Y'dfcWgg"" ⊕ cfXYf<sup>\*</sup>hc<sup>\*</sup>UVX]Yj Y<sup>\*</sup>Ub<sup>\*</sup>cdh]a U<sup>\*\*</sup>a Uf ž<sup>\*</sup>mci<sup>\*</sup>k ]<sup>\*\*\*</sup>bYYX<sup>\*</sup>hc<sup>\*</sup>HJ Y<sup>\*</sup>Ub<sup>\*</sup>UWAj Y<sup>\*</sup>UbX<sup>\*</sup>fYqdcbq]V<sup>\*</sup>Y<sup>\*</sup>dUfhi]b<sup>\*</sup>k cf q\cd X]qWgq]cbgžWc``UVcfUhjiY'dfcYWg'UbX'ch\Yf'UgqcWUhYX'UWhji]hYg

# 7 ci fgY GWX YXi `Y

#### J]Yk WUgg'ha YHJV'Y

#### H]a YHJV`Y`

| 8 UHY                                    | Hmd Y         | 7 cbhYbh  |
|--|---------------|---|
| K YY_`%`%)`: YVfi Ufm!`%<br>: YVfi Ufm   | Hcd]W         | =bhfcXiWhjcb.FYgcifWYgž7UaYfUg`=bXiWhjcbgž<br>Hf]dcXgž:UWj]hjYgžGUZYhmž7CJ=8!GUZYž;fcid<br>Kcf_     |
|  |               | Hcd]WX]gW/gg]cbgi/`[YbfY"`GWf]dhgij`UXUdhUh]cbgij<br>Cf][]bU``dfc^YWg``                             |
|  | @YWNifY       | 7 ci fgY`]blfcXi W]cbžUggYgga YbhXYlU]`gžWfYk `fc`Yg<br>UbX`Z]`a `[fUa a Uf                         |
| K YY_`&.`&&`: YVfi Ufm!`&*<br>: YVfi Ufm | Dfc∕YWh       | GhUfh]b[ ˈk cf_ˈcbˈmci fˈdfcºYWbg" Ghfi Whi fYgž<br>h]a Y`]bYgž[ fci dˈk cf_ˈfYe]fYa Ybhgʻ          |
|  | ; fci d'K cf_ | GWF]dHxf]h]b[.:UXUdHUh]cbžkf]h]b[:UWh]cb"`GWF]dh<br>kf]h]b[:YIYfW]gYg"`GWF]dh]XYUg"`D]HWX]b["`      |
|  | Gh X]c        | 7 Ua YfU ʻhYghgžX]ZYfYbhWUa YfUgžgYhi dʻ]bʻfA Ubi U`fi<br>Hf]dcXgʻUbX`F ][g"`< UbX\Y`X"`8 c``m      |
|  |               | Hkc'G\chUbX']bhYfj]Ykg  |
| K YY_''.'%A UfW\'!')<br>A UfW\           | ; fcidKcf_    | @[\h]b[`h\YcfmUbX`dfUWb]WY"`H\fYY`Dc]bh`@][\h]b["<br>Bc]f``][\h]b["`CihXccf``][\h]b[`UbX`fYZYWhcfg" |

| 1 |  |  |
|---|--|--|

# FYgci fWg

### DfYgWf]VYX F Ygci fWYg

A cghWci fgY`fYgci fWYg`k]``VY`dcghYX`cb`U`kYY\_`mVUg]g`cb`h\Y`A ccX`Y`g]hY`hc`gi ddcfhimci f`Wci fgY YI dYf]YbWY''`Ghi XYbhg`UfY`YI dYWhYX`hc`fYj]Yk`h\YgY`fYgci fWYg`h\cfci [\`m'

#### FYWca a YbXYX FYgci fWYg

D`YUg`gYY`A ccX`Y`Wci fgY`g]hY`!`k YY\_`mi dXUhYg

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

: 998657? .....

: YYXVUW\_`]g`Ub`YggYbhJU``dUfhcZdfcXi Whjcb`UbX`WfYUhjjY`dfcWfggYg"`Hihcfg`k]```dfcj]XY`cb[c]b[`cfU``UbX Zcfa UhjjY`ZYYXVUW\_`Zcf`WcifgY`a UhYf]U`g`]b`h\Y`dfcWfgg`UbX`dfYdUfUhjcb`cZmcif`dfc^YWfg`Vihcb`m]Zmci

# Gi Va ]gg]cb<sup>·</sup>cZ<sup>·</sup>5ggYgga YbhHUg\_g

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

, Zmci `YbWci bHYf`U`dfcV`Ya `k \Yb`UHHYa dH]b[ `hc`gi Va ]himci f`Ugg][ ba YbhH\fci [ \`Hi fb]H]bž`d`YUgY HY`Yd\cbY`91 HYfbU``Gi ddcfhcb`-',)`''' %cf`Ya U]``H\Ya `cb`YI HYfbU`HY`Hgi ddcfh4 i bgk "YXi "Ui `"`Gi ddcfh

# 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"`=h\Wb`HU\_Y`a Ubm Zcfa gžZīca `XY`]VYfUHY`W\YUH]b[ 'hc`UWV]XYbHU``mWcdm]b[ 'Zīca `U`gci fW'`k ]H\ci hUW\_bck `YX[ Ya YbH'

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

i bXYfgHUbX\*mci f\*f][\hg\*UbX\*fYgdcbg]V]`]h]Yg\*Ug\*U\*gh XYbhUhI BGK

# 5₩UXYa]W=bZcfaUh]cb

: cf<sup>\*</sup>YggYbhJU<sup>\*\*</sup>gh XYbh<sup>\*</sup>]bZcfa UhJcb<sup>\*</sup>fY<sup>\*</sup>UhJb[<sup>\*\*</sup>hc.

- fYei Yghg Zcf Yl hYbg]cb/
- `UHY'gi Va ]gg]cbg'[ i ]XY`]bYg/
- fYj ]Yk 'cZa Uf\_g/
- I BGK '<YU`h\`UbX'GUZYmidc`]WjYg/
- YI Ua ]bUh]cb'dfcWYXi fYg/
- gdYWJU``Wcbg]XYfUH]cb`]b`H\Y`Yj YbhcZ]``bYgg`cf`a ]gUXj YbH fY/
- gh XYbhYei ]mUbX`X]gUV]`]m/
- UbX'ch\Yf'YggYbh]U``UWUXYa ]W]bZcfa Uh]cbž'gYY

<u>htdg.#k k k "Ufhg"i bgk "YXi "Ui #W ffYbHgh XYbhg#UWUXYa ]W]bZcfa Uh]cb#dfchcWc`g![i]XY`]bYg#</u>

### =a U[Y<sup>·</sup>7fYX]h

DcghYf<sup>\*</sup>Zfca <sup>\*</sup>h\Y<sup>\*</sup>h\YUhfY<sup>\*</sup>dfcXi Wjcb<sup>\*</sup>Efk<sup>\*</sup>kSY[