

ARTS5505

DYfgcbU`]gYX'9b[`]g\'@Ub[i U[Y'9b\UbWa Ybh

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

7ci fgY[·]Cj Yfj]Yk

GHJZZ:7cbHJWh:8YHJ]`g`

'7cbj Ybcfg'

| B Ua Y | | | | | |
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5ggYgga Ybh

5ggYgga Ybh'HUg_g'

| 5ggYgga Ybh'HJg_ | K Y][\h | 8i Y'8UHY | Gh XYbh@YUfb]b[Ci hWca Ygʻ5ggYggYX |
|-------------------------------------|----------|---|--|
| DYfgcbU`dfcYWiXYg][bfDD8Ł | ' \$ı | &, #\$*#&\$%-`%%\$\$`DA | ' ž(ž) |
| DfcYWhc[Vcc_'UbX'cifbU'' | &\$I | &*#\$+#&\$%-'%%\$\$`DA | %ž& |
| CfU``DfYgYblUljcb'!'%\$ a]bilYg' | &\$ı | \$) #\$, #&\$%- `\$\$\$ [*] 5A | (ž) |
| FYZYW¶jY'YggUm | ' \$1 | \$-#\$,#&\$%-`%%\$\$`DA | %ž& |

5ggYgga Ybh'8YHJ]`g

5ggYgga Ybh% DYfgcbU dfc YWhXYg][b fDD8Ł

GhUfhXUhY. Bch5dd`]WUV`Y

8 YHJ]`g. `Ghi XYbhg`XYg][b`h\Y]f`ck b`dYfgcbU``dfc^YWhc`UXXfYgg`h\Y]f`ck b`9b[`]g\``Ub[i U[Y`bYYXg"`H\Ym UfY`fYei]fYX`hc`gdYWJZmh\Y]f`dYfgcbU``dfc^YWh[cU`žVUW_[fci bXža Yh\cXžfYgci fWygždfc[fYgg a YUgi fYa Ybhž'h]a Y`]bYžgW\YXi `Y`UbX`UbhJWJdUhYX`ci hWta Yg"`H\YmbYYX`hc`XYj Y`cd`h\Y]f`DD8`VUgYX`cb fY`Yj Ubh`]hYfUhi fY`cZh\Y`ZJY`X`WcbWfbYX"`H\Y`k cfX``]a]h]g`%) \$\$"Ghi XYbhg`fYWY]j Y`k f]hYb`ZYYXVUW_`VUgYX cb`fi Vf]Wg"```

5ggYgga Ybh'& 'Dfc YWh'c[Vcc_'UbX 'ci fbU'

GhUfhXUhY. Bch5dd`]WUV`Y

5ggYgga Ybh' . 'CfU' DfYgYbhJh]cb'! '% a]bi hYg

GhUfhXUhY. Bch5dd`]WUV`Y

8YHJ]`g. `Gh XYbhg`dfYgYbhh\Y]f``YUfb]b[`\][\hg`Zfca `h\Y]f`dYfgcbU``dfcYWhZcf`UVci h%\$`a]bi hYg`hc

5 https://bxubwww.Fyei]fYaYbhg

 $\hbox{Ghi XYbhg'UfY'ghfcb[`m'YbWc'i fU[YX'hc'UhhYbX'U```WUggYg'UbX'fYj]Yk'``YWhfY'fY'WcfX]b[g''' } \\$

7ci fgY GWX YXi `Y

J]Yk 'WUgg'h]a YhUV'Y

H]a YtUV`Y

| 8 UhY | HmdY | 7 cbhYbh |
|----------------------------------|----------------|--|
| K YY_'%'' '>i bY'!'+'>i bY | @YWn fY | ±blfcXi Whjcb hc D5 A cXY`žWci fgY`ghfi Whi fYžUbX CdYb@YUfb]b['d`Uh⁄cfa /X]U[bcgh]WUggYgga Ybh |
| | Hi hcf]U` | 8]gWgg]cb`cb`h\Y`X]U[bcgh]WUggYggaYbh/gYhf]b[id'U`[cU``Zcf'h\Y`dYfgcbU``dfcYWh |
| K YY_`&.`%\$`>i bY`!`%(>i bY | Cb`]bY'5Wfj]hm | I gYZ `WcbWdhg`]b``Ub[i U[Y``YUfb]b[/gYhh]b[i d'Ub Y!dcfhzc`]c/X]U[bcgh]WUggYgga YbhZYYXVUW_/]bhfcXi W]b[idYfgcbU`idfcYWhXYg][bifDD8±" GhiXYbhgik]``k UhWiK YY_'&``YWhifY'UbX Wcad`YhYihihcf]U``UWhji]h]Ygicb`]bYiXiYihcih\YidiV`]W \c`]XUmicbiAcbXUm'i |
| | Hi kcf]U` | GYM]b[i didfcZ]Y cb CdYb@YUfb]b[/XYj Y`cd]b[iUXU]`mfci h]bY Zcf &%XUmg/F Yj]g]b[idYfgcbU`idfcYWh[cU`/XfUZi]b[iU'dYfgcbU`idfcYWhXYg][bifDD8 L"Gh XYbhgik UhWX h\Y`YWh fY UbX Wca diYhYih hcf]U`UWlj]h]Ygicb`]bY" Hi hcf]U`gicb H\i fgXUm% i>i bYik]`fi biUgibcfa Uʻž'UbXighi XYbhgiZfca iA cbXUmhi hcf]U`ga UmU`gc 'UhhYbXž'U`h\ci [\'UhhYbXUbWYi]gibch Wca di `gcfm" |
| K YY_" ."%+">i bY"!"&% >i bY | @YVMi fY | @Ub[i U[Y``YUfb]b['a Yh\cXgžfYgci fWg'UbX dfc[fYgg'a YUgi fYa YbhffYUX]b['UbX'k f]h]b[\{/ ghJ[Yg']b``YUfb]b['U'bYk 'g_]``` |
| | Hi hcf]U` | FYj]g]b['h\Y'dYfgcbU`dfcYWhXYg][b'fDD8Ł |
| K YY_^(.^&(^>i bY^!^&, >i bY | @YWi fY | @Ub[i U[Y``YUfb]b['a Yh\cXgžfYgci fWfg'UbX dfc[fYgg'a YUgi fYa Ybhfl]ghYb]b['UbX gdYU_]b[Ł/\ck 'dYcd`Y'fYgdcbX'hc'Yl dYWfUh]cbg |
| | Hi hcf]U` | :]bU`]g]b['h\Y`dYfgcbU``dfc^YWhXYg][b`fDD8Ł' |
| K_YY_^) . "%">i `m'! ") ">i `m | @YWhifY | FYZYVV]jY`ĉifbU`]b[|
| | Hi hcf]U` | FYZYW¶jY`ĉifbU`]b['dfUW¶W |
| K YY_'*.', '>i `m'!'‱'>i `m | @YWn fY | : YUhi fYgʻcZUWUXYa]WX]gWci fgY/hJa Yʻa UbU[Ya Ybh UbXʻgY`Zla chJj UhJcb |
| | Hi hcf]U` | 8]gW gg]b['dYfgcbU`'dfcYWidfc[fYgg' |
| K YY_'+.'%) '>i `m! '% '>i `m | @YVVi fY | DfcZYgg]cbU``Wcaaib]WUh]cb/WfiWJU``WcbjYfgUh]cbg_]``g/UVghfUWfikf]h]b[' |
| | Hi hcf]U` | 5 VghfUWhik f]h]b[··· |
| K YY_', .'&&'>i `m!'&* '>i `m | Cb`]bY'5Wfj]hm | K UMW. 'h\Y'"7 cbZ]XYbWY']b'[fcid'X]gW gg]cbg]h Uh]cbg"'gYWf]cb'cb'CdYb@YUfb]b['UbX'dcghcbYfgfYZYWf]cb'cb'CdYb@YUfb]b[" |
| | | [fYZYW]cbicbiCdYb@YUfb]b[" |

| K YY_''&- '>i `m!'& | @YWhifY | DfYgYbfUf]cb`g_]``g/Z bU``fYZYWf jY'YggUm |
|---------------------------|-----------|---|
| 5i [i gh | Hi hcf]U` | DfYgYbhJhjcb:fY\YUfgU`: |
| K YY_"%\$.") "5i [i gh!"- | @YWhifY | @YUfb]b[': Yghjj U``! '_YmbchY 'gdYYV%Yg' |
| 5i [i gh | Hi hcf]U` | @YUfb]b[': Yghjj U`'! 'dUfU``Y`'dfYgYbhUhjcbg' |

FYgci fW/g

DfYgWf]VYX F Ygci fWYg

Gh Xmb[']b '9b[`]g\. 'GhfUhY[]Yg 'Zcf'Gi WW gg ']b '<][\Yf'9 Xi WUh]cb 'f&\$%+Ł

FYWca a YbXYX FYgci fW/g

6cc_'-'@YUfbYf'9b[`]g\'f&\$\$\\L

6cc_'-'7f]h]WU``FYUX]b['UbX'K f]h]b['f&\$\$' Ł

6cc_'-': cfY][b'@Ub[i U[Y'@YUfb]b['f%--, Ł

6cc_'-'<ck'@Ub[iU[Yg'UfY'@YUfbYX'f&\$\$(Ł

6cc_'-';]| Y'=1'U'; c. HYUW\]b['Dfcbi bW]Uh]cb'hc'5Xi 'hg'f&\$\$-Ł

6cc_-9ggYbhJU'g'cZ9ggUmK f]hJb[.K\UhA Uf_Yfg'@cc_: cf'f&\$%+k

6cc_'-'7f]h]WU``FYUX]b['UbX'Kf]h]b[']b'h\Y'8][]hU``5[Y'f&\$%*Ł

6cc_'-'HYUW\]b['UbX'FYqYUfW\]b['GdYU_]b['f&\$%+Ł

A cfy fygci fwg Ufy fywca a Ybxyx cb @y [Ubhc"

7 ci fgY '9j U'i Uhcb 'UbX '8 Yj Y'cda Ybh

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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

#mci YbWci bhYf'U'dfcV'Ya 'k \Yb'UthYa dr]b['rc'gi Va]hmci f'Ugg][ba Ybht\fci [\'Hi fb]r]bž'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'mYUft'''#c'ici
UfY'i bUV'Y 'rc'gi Va]hmci f'Ugg][ba YbhXi Y'rc'U'ZJi 'hk]h\'Hi fb]r]b'mci 'a Um'Udd'mZcf'Ub'YI hYbg]cbž'Vi hmci
a i ghfYhJ]b'mci f'r]WYhbi a VYf'Zfca '9I hYfbU''Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY'Yj UbhXcW a Ybfgt'rc
]bWi XY'Ug'Yj]XYbWY 'rc'gi ddcfhmci f'YI hYbg]cb'Udd']WUh]cb'''#mci 'Ya U]''9I hYfbU''Gi ddcfhmci 'k]'`
Ui hca Uh]WJ''mfYWY]j Y'U'r]W_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k]'''bYYX'rc'gdYW]ZJWJ''mUg_'Zcf'cbY''
Hi fb]h]b'U'gc'dfcj]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUh' g'cb'Hk]hYf"

; YbYfU``mž'UggYgga YbhiHug_g'a i ghVY'gi Va]hhYX'Y`YVWfcb]\W)``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'\\ci fgY'g'A ccX`Y'g]hY'k]h\ U`hYfbUh]j Y'gi Va]gg]cb'XYhJ]`g''

cfi]bZcfa Uh]cbicbi\ckihcigi Va]hUgg][ba Ybhgicbi]bYij]UiA ccXiY.i\hdg.#gh XYbh'i bgk "YXi "Ui #\ck! qi Va]hUgq][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±iWUbihU_Yia Ubm Zcfa qžZfca iXYi]VYfUhYiW\YUh|b[ihciUVW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hUW_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 bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hz'l BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUV`Y`l gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\m\m
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj]ci f'Yl dYWYX '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@&9'k]``\Y`d'mci 'a U_Y'h\Y'a cghicZmci f'ghi X]Yg'UhI BGK "'\\hd.##qi V'YWfi |XYg"`]VfUfm'i bqk "YXi "Ui #\`]qY#JVci hY`]qY