



# ARTS2128

5 fhUbX'GcWjU`7 \Ub[ Y

HYfa `Hk c`#`&\$&\$



GWXcc`cZHAY`5ftg`UbX`A`YXJU`#`I`BGK`..5ftg`UbX`GcWjU`..GWYbWg

7 ci fgY`Cj Yfj ]Yk

GHJZZ`7 cbHJW`8 YHJ]`g

7 cbj Ybcfg

B Ua Y	9a Uj`	5j Uj`UVj]m	@WJhcb	D\cbY
H\Yfcb`GWa ]Xh	h'gVWa ]Xh i bgk "YXi "Ui		K YVghYf`%%&	l)` &%

GWcc`7 cbHJW`bZcfa Uh]cb

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Fcca`" %&ž@Yj Y`" žF cVYfhK YVghYf`6i ]X]b[ `f] %Ł

D\cbY.`f\$&Ł`-` , ) `( , ) \*

9a Uj]: [gUa 4 i bgk "YXi "Ui](#)

K YVg]hY: [k k k "Ufng"i bgk "YXi "Ui #gUa](#)

H\Y`GWcc`cZ`hY`5 frg`UbX`A YX]U`k ci `X`\_]Y`h`F YgdYW`m5W`bck`YX[ Y`hY`HfUX]hcbU`7 i g`hX]Ubgž`hY`6YXY[ U`fP`Ybg]b[ hcb`WJa di gŁž; UX][ U`f7 ]mUbX`5 ffr`8 Yg][ b`7 Ua di gYgŁ`UbX`hY`B [ i bbUk U`dYcd`Y`f5i g`fU]Ub`8 YZ`bVW : cfW`5WUXYa m]b`7 UbVYffUŁ`cZ`hY`UbXg`k \YfY`YUW`WJa di g`cZI`BGK`]g`cW`hY`X"

7 ci fgY'8YHJ`g

7 fYX]hDc]bHg '\*`

Gi a a UfmicZ\Y'7 ci fgY

5fhgh]WghfUH[ ]Yg'dfcj ]XY'dck YfZ `a YUbg'cZa U\_]b[ 'gcW]U'UbX'dc`]h]W]`a YggU[ Yg'\YUfX'VmU'k ]XYf  
Ui X]YbVW""7 i `hi fY'Ua a ]b[ žZUg\`a cVgž[ i Yff]'U'h.YUhfYžUbX'cb`]bY'UW]j ]ga `UFY'a U\_]b[ 'Ub`]a dUW  
UW'cgg'dc`]h]W]`WJa dU][ b]b[ žgcW]U'UXj cWUW]ž'UbX'W`a a i b]mia cV]'gU]cb""H\]g'W`i fgY'k ]`]b]fcXi W  
mci `hc'g][ b]Z]W]bhXYj Y`cda Ybhg'UbX'XYVUH'g'UVci hi g]b[ 'Ufh'hc']bgd]fY'W]Ub[ Y'UbX'hc']bhYfj YbY'k ]h]b  
di V]WgdUW""Mci `k ]`\Uj Y'Ub'cddcfh b]m]hc'k cf\_k ]h]mci f'dYYfg'hc'XYj ]gY'mci f'ck b'Zcfa `cZUW]j ]ga `cf  
W`a a i b]m]Yb[ U[ Ya YbhUfci bX'Ub']ggi Y'cZmci f'W]c]W"

7 ci fgY '@YUfb]b[ `Ci hW`a Yg

% " ÆYbh]Zrig][ b]Z]W]bhia ca Ybhg'UbX'XYVUH'g']b'h.Y'XYj Y`cda YbhicZdi V]WUf]ž'UW]j ]ga ž'UbX'h.Y  
dc`]h]W]`cZdi V]WgdUW]'b'h.Y'&\$h'UbX'&%ghW]bh f]Yg`""  
&" 5ggYgg`\_Ym]h.YcfYh]W]`W`bW]d]hg'Ug'k Y""Ug'dfUW]W]`a cXYg'cZUW]j ]ga `UbX'di V]WUk UfYbYgg!  
fU]g]b[ ž'UbX'Udd'm]h.Ya `hc'W`b]h.Ya dcfUfm]ggi Yg`""  
' " K cf\_W`"UVcfU]h] Y'mk ]h'ch.Yfg']b i bXYfU\_]b[ 'fYgYUfW]`UbX'dfYgYb]h]cb'cZ]bX]b[ g`""

HYUW]b[ `GhfUH[ ]Yg`

F YUX]b[ gžj ]XYcgž'UbX'U'W`a V]bU]h]cb'cZcb`]bY'UbX'Z]W]!hc!Z]W]`YW]h fYg'k ]`]dfcj ]XY'\]g]hc]f]W]`W`b]h]i h  
UbX'W]h]W]`hYfa ]bc`c[ m]Zcf'i bXYfg]h]UbX]b[ `h.Y'j Uf]ci g']bhYffY'U]h]cbg'VYhk YYb Ufh]UbX'UW]j ]ga ""5'Z]ddYX  
a cXY`cZ]h'hc]f]U]g'k ]`gi ddcf]h]gh XYbh'YX Yb[ U[ Ya Ybhk ]h']ggi Yg'UbX'W]gY'gh X]Yg'cZ]h.Y]f'ck b  
W]ccg]b[ ž'YUX]b[ `hc'k UfX'h.Y'XYj Y`cda YbhicZ]h.Y'Z]bU`[ fci d'dfc'YW]h]h.UhXYj ]gYg'U'k Um]hc'a cV]'gY'di V]W  
Uk UfYbYgg'Ufci bX'U'W'ffYbh]ggi Y"

# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g`

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7`Ugg'6`c[ `	' \$i	Bch5dd`]WUVY	%ž&
7 UgY`Gh XmDfYgYbhUH]cb`	' \$i	%( # \$ + # & \$ & \$ \$ - . \$ \$ ' 5A	%ž&
; fci d`dfc`YWh	( \$i	% # \$, # & \$ % - ` \$) . \$ \$ ' DA	&ž

## 5ggYgga Ybh8YHU]`g

### 5ggYgga Ybh%`7`Ugg'6`c[

GHUfhXUH`.

8YHU]`g.

7cbhf]Vi H`k YY`m]b`k YY`g`%d) `hc`WUgg`V`c[ žVUgYX`cb`Ugg][ bYX`hUg\_g``5ggYggYX`Vmfi Vf]W

: YYXVUW`j ]U`@A G

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

H\YgY`k ]``VY`g\cfhfYgdcbgYg`hc`dfca dhg`Zca`cb`]bY`a UHf]U`g`cf`\UbXg!cb`hUg\_g`i bXYfhU`Yb`ci hg]XY`cZ  
WUgg`Xi f]b[ `k YY`g`%d) ``H\Ymk ]``VY`Xi Y`Vmih`Y`gdYW]YX`hja Y`Yj Yfmk YY`ž`k ]h`dYbU`miZcf`UH`bYgg"

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

### 5ggYgga Ybh&.`7 UgY`Gh XmDfYgYbhUH]cb

GHUfhXUH`.

8YHU]`g.

Mci`UfY`Ug\_YX`hc`XYa`cbghfUH`Uddfcdf]UH`mgY`YW`X`h`Ycf]Yg`UbX`WcbW`dhg`Zca`h`Y`Wci`fgY`]b`fy`UH]cb  
hc`Ub`]bXYdYbXYbhmfYgYUfW`YX`WUgY`gh`Xm`

, !a ]bi H`g``5ggYggYX`Vmfi Vf]Wk ]h`k f]H`Yb`Wca`a`YbHg"

: YYXVUW`j ]U`@A G

Gi Va ]gg]cb`bchYg.Gi Va ]hU`%ž`\$`\$`k`cfX`j`Yfg]cbž`k ]h`fYZ`fybW`gž`Vm) da`cb`H\i`fgXUm`%\*`>`i`m`

Hi fb]h]b`gYH]b[ . H\]g`Ugg][ ba Ybh]g`gi Va ]hX`h`fci [ \`Hi fb]h]b`UbX`ghi XYbHg`WU`b`g`YY`Hi fb]h]b`g]a ]`Uf]m  
fydcfHg"

5ggYgga Ybh' .; fci d' d'fc YVh

GHfhXUH. '

8YhU]`g.

K cf\_`]b'ga U`` [ fci dg'hc`XYj ]gY`U`Zcfa`cZUW]j ]ga ždYfZcfa UbWžcf'a cV]`nUh]cb" `H\]g`UW]cb'a UmfYa U]b  
WčbWdhi U`Vi hg\ci`X`VY`XYhU]`YX`]b`]hg`d`Ub`Zcf`YI YW h]cbž`UbX`g\ci`X`VY`VUgYX`cb`Vch`df]a UfmUbX  
gYWčbXUfmfYgYUfW`]b]c`U`WčbhYa dcfUfm]ggi Y" 9UW [ fci d'k ]`d'fcXi W`U`Zcfa`cZXCW`a Ybhih.Uh]g  
Uddfcd]UH`hc`hY`UW]cb"

9UW`ghi XYbhk ]`fYW]j; Y`k`f]h]b`ZYXVUW`cb`hY`cj YfU`` [ fci d' d'fc YVh`UbX`cb`\]g`cf`\Yf'ck b`Wčb]f]Vi h]cb  
Ug`k`Y``Ug`U`bi`a Yf]W` [ fUXY"

: YXVUW`\_j ]U`@A G

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

5 hYbXUbW`F Yei ]fYa YbHg

7 ci fgY`GWXYXi `Y

[J \]yk`WUgg`hja YhUV`Y](#)

H]a YhUV`Y`

8UhY	HmdY	7cbhYbh
K YY_`%`%>i bY!`)'>i bY	@YWh fy	ffYg]gh]V`Y`]a U[ Yg .`DfchYghUg dYfZcfa UbW`"FZ[ ] [ Y STagf fZW efSYWUdSf` aX SUR[h[e_ - SUR[hSf]` Y fZW[_ SY[` Sf[a` S` V XWW[ Ye- USdWS` V ea_ Sf[U Wj bWdW UW
	F YUX]b[	GhYd`Yb`8i bW`a VY`UbX`GHj Y`@Ua VYftr`H`Y`5fhcZ 5Wj]`]ga`
	<ca Yk cf_	G\cfhV`c[ `hUg_]b`dfYdUfU]cb`Zcf`k YY_`&. "W`a a i b]mei Ygh]cbbU]fY"
K YY_`&.`;`>i bY!`!%& >i bY	@YWh fy	Bch]b[ `UVci hi g`k`h]ci hi g .`K cf_]b[ `k`h W`a a i b]m`BGT`U Sdf`S` V b`ab Sdf` - Ua__`g` [fk Sdf` eaU[S`^bdSUR[UW`eaU[S`*k W YSYW Sdf`/E 73f+ [ fWdhW f[a` hz[ fWdSf[a` - Sdfi SeZ[ Y - WfZ[Ue aX bSdf[U]bSf[a` S` V Ua__`g` [fk W YSYW_ W f
	Dfc`YWh	DYhfU`?`i ddYfgz`"b]fcXi W]rcb`"]b`5a__`g` [fk B`W`ad`S` UW 3` ;` fcbVgUf[a` /DUV`c`<Y`[ i YfUz "7ca a i b]m`"]b`7VgUSf[a` XadEaU[S`*k 7` YSYW 3df, 3 ? Sfd[S`e`S` V FWUZ` [cgW`e : S` VTaa]
	<ca Yk cf_	G\cfhV`c[ `hUg_]b`dfYdUfU]cb`Zcf`k YY_` .`5`a`]g! [ i ]XY`tc`mci f`ca Y"
K YY_`"`.%)`>i bY!`!%` >i bY	@YWh fy	GdUW`]bj UXYfg .`GdUW`z`dck YfzUbX U[ YbWm`6[eU]b`f` Sck bai Wd`fZWbS` abf[Ua` S` V egdhW`*S` UWebSUW` `a` Zb`SUW`e - YW VdW`S` V dSU[S`feW ebSUW`i S`f[ Y Se Sdf- bekUzaYW`YdSbZk + _ [eZyg[VW`e + S` V afZWd UdMSf[hWSUf]hSf[a` aXebSUW
	F YUX]b[	A ]WXY`":`ci Wli`h`YI W]fdhg`Zca`fB`cW]Y`VcX]YgfiUbX fh\Y`A YUbg`cZ7`cYfYWhHfU]b[ f]B]fa U` Di`k Ufz`"8]ggcbUbh6cX]Yg`z`]b`E`bSUW` ;`hSVW`e, DSUW`9`W VdS` V 4aV[W`e A gf`aXB`*SUW
	<ca Yk cf_	G\cfhV`c[ `hUg_]b`dfYdUfU]cb`Zcf`k YY_`" . 7cbgi a Yf`fYdcfh
K YY_`(`.`&&`>i bY!`!`*` >i bY	@YWh fy	H`Y`W`bgi a Yf`ghf]_Yg`VUW_ .`DYfZcfa ]b[ `h`Y W`bgi a Yf" ? [ W`e[e`S` V Ua`eg_ WdWj bWdW UW`e- TdS` VeUSbW`e- W_ af[a` S`^STagd- ZST[fge - Ug`fgdW `S_ _ [ Y- eSf[dWS` V bcd` ]efW`e
	F YUX]b[	A Ui`fnU`K ]W`g]fca z`"b]fcXi W]rcb`"]UbX`C`b`h`Y`A`cj`Y UhB ]Yhck b`UbX`F`U`d\`@Ui`fYb`"]b`B`W`ad` [ Y 5a`eg_ W`e, 9`a`TS`^5`Sb[fS`^S` V ;`fe`FZWSfd[US`^ E`VW`gUf[a` e
	<ca Yk cf_	G\cfhV`c[ `hUg_]b`dfYdUfU]cb`Zcf`k YY_`)." .

		ǂZcfa Uhjcb`UWj] gga
K YY_) . :&- >i bY!" >i `m	@YWh fy	Hk YYhg`UbX`hY`ghfYYhg . `Cb`]bY`gdUWg`UbX bYk `Zcfa g`cZUW]cb"8da_ gfab[S` h[e[a` e aX 5kTWebSUW fa Ua` fW_ badSck eaU[S^_ VW[S- Uag` fWdbai Wd S` V` W _ VW[S- e`SU] f[h[e_ - 5gfW5Sfe fZWack- [ Xad_Sf[a` SUf[h[e_ -fSUf[US^ _ VW[S- a` ↑ WebSUWSe ZWfWafab[S ž
	F YUX]b[	DUc`c; YfVUi XcZ"ǂhfcXi W]cb" hc`Fi VWfe S` V fZW E fdWfe, EaU[S^? VW[S S` V 5a` fW_ badSck 3Uf[h[e_ / A U`W`a ; `UXk Y`ž`K `mi`hY`fyj c`i`h`c`b`k`j`bchVY hk YYhYX'
K YY_* . * >i `m! %\$ >i `m		: `YI `k YY_! `dfYdUfY`Zc`f`k YY_+ `dfYgYbHUhjcb
K YY_+ . % >i `m! %+ >i `m	DfYgYbHUhjcb	: Yghj U`cZ`XYUg. ]bX]j ]Xi U`dfYgYbHUhjcbg fUggYggYXc`cZYI Ua d`Yg`cZWfYUhj Y`UW]j ]ga `UbX W`a a i b]mcf[ Ub]gUhjcbžhc`]bgd]fY`hY [ fci d dfc`YW]g`]b`hY`ž`bU`k YY_g"
K YY_ . :&\$ >i `m! &( >i `m		Gh XYbh`YX`i dXUH`g"; fci d`dfc`YWhk cf_"7 UgY gh Xm`Gi nUbbY`@UWž`%I VW] e [ ? Sk
K YY_- . :&+ >i `m! " % >i `m		Gh XYbh`YX`i dXUH`g"; fci d`dfc`YWhk cf_"7 UgY gh Xm`7 \f]g]cd\`GWX`]b[ Ybg]Yž`3ge`p` VWD`Sge
K YY_%\$ . " 5i [ i gh! + 5i [ i gh		Gh XYbh`YX`i dXUH`g"; fci d`dfc`YWhk cf_"7 UgY gh Xm`D@5H: C F A ž`3d`@af A [^
K YY_%% %\$ 5i [ i gh! %\$ 5i [ i gh	5ggYgga Ybh	: ]bU` [ fci d`dfc`YWhXi Y

# F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

5`fYgci fWg`cb`C b`bY`F YUX]b[ `@]ghUhi  
[\hdg.##Jd\\$%U"U`a U"YI`\]Vf\]g\[ fci d"V`a #Y\[ Ubtc#di V`M#`% B.GK S-B.GH#\]ghg# &+\) \(\\$\\*'`% \\$\\$\\$%+'`%3Ui h1@C.75@](#)

F YW`a a YbXYX`F Ygci fWg

H\Y`di V`]W]h]cb`UbX`k YVg]hY`4WSgf[Xg^F dagT`W`UbX`h`Y`Zc`ck`!i`d`di`V`]W]h]cb`4WSgf[Xg^D[e[ `Y`Z`UfY`hYff]Z]W`fYgci fWg`h`c`k` \]W`k`Y`k`]`fY`Z`f`g`Y`j`Y`fU`h`a`Y`g`H\Y`Vcc\_g`h`f`Y`g`l`ci`X` \U`j`Y`W`d]Y`g`c`Z`h`Y`di`V`]W]h]cb.`

6cmX`z`5bXfYk`z`UbX`8Uj`Y`C`gk`U`X`A`]h`W`Y`z`Y`X`g`z`4WSgf[Xg^F dagT`W`3`F`aa`T`aj`X`ad`D`W`ha`g`f`a` `f`B`Y`k` `M`c`f`\_`UbX`@`c`b`X`c`b`.`C`#` `6`c`c`\_`g`z`&`\$`%`&`t`

5Vi` `V`U`f`U`z`>i`a`Ub`z`5bXfYk` `6cmX`z`8Uj`Y`C`gk`U`X`A`]h`W`Y`z`UbX`A`U`f`W`H`U`a`]b`U`h`z`Y`X`g`z`4WSgf[Xg^D[e[ `Y`,`5`d`W`f`h`W`D`W`e[efS` `U`W`X`a`\_`f`Z`W`9` `a`T`S`^`E`a`g`f`Z` `f`B`Y`k` `M`c`f`\_`UbX`@`c`b`X`c`b`.`C`#` `6`c`c`\_`g`z`&`\$`%`&`t`

5bX`h`Y`k`Y`V`g]h`Y`g`U`fY` [\hd.##YUihz`fci`V`Y`cf\]`UbX` \hdg.##YUihz`f\]g\]b\[ `cf\]`#](#)

C`h`Y`f`f`Y`W`a`a`Y`b`X`Y`X`W`c` `Y`W`h]c`b`g`c`b`di`V`]W`U`f`h`U`b`X`U`W`h]j`]`g`a` .

8c` \Y`f`m`z`7`U`j`f`Y`z`Y`X`z`B`g`T`U`3`d`f`/`@`a`i` `f`i`A`g`f`a`X`F`\_`W`A`g`f`a`X`B`S`U`W`f`@`c`b`X`c`b`.`5`f`h`#`6`c`c`\_`g`z`&`\$`%`&`t`

:`Y`g` \]b`z`B]b`U`z`Y`X`z`4`g`f` ;`e` ;`f`3`d`f`1` `F`Z`W`E`b[`d`f`a`X`3`d`f`3`e`3`U`f`h[e\_` `f`G`Y`U`h`Y`.`6`U`m`D`f`Y`g`g`z`%`-`(`t`

A`W`@`U[ `Ub`z`A`Y[ `z`UbX`M`U`h`g`A`W`Y`Y`z`E`W`e[`T`W`B`a`f`f`U`e`,`F`Z`W`H[egS`^5`g`f`g`d`W`a`X`@`a` `Y`a`h`W`d`\_`W`f`S`^`3`U`f`h[e\_` `f`B`Y`k` `M`c`f`\_`N`c`b`Y`6`c`c`\_`g`z`&`\$`%`&`t`

B`Y`U`z`@`W`r`z`B`S`k[ `Y`X`ad`F`\_`W`?`S]`[ `Y`3`d`f`S`e` ;`X`F`Z`W`I` `ad`V`?`S`f`W`d`W` `f`@`c`b`X`c`b`.`C`V`Y`f`c`b`6`c`c`\_`g`z`&`\$`%`&`t`

B`c`h`Y`g`z`f`c`a` `B`c`k` \Y`f`Y`z`I` `W`3`d`W`7`h`W`k`i` `Z`W`d`W` `F`Z`W` ;`d`W`e[ef]T`W`D[e`W`a`X`9` `a`T`S`^`3` `f`[U`S`b[`f`S`f`e\_` `f`@`c`b`X`c`b`.`J`Y`f`g`c`z`&`\$`%`&`t`

g`h`Y`f`]g`W`X`Y`f` \Y`f`V`g`h`U`b`X` :` `cf]`U`b`A`U`n`U`W`X`Y`f`z`Y`X`g`z`F`d`g`f`Z` ;`e`5`a` `U`d`W`W`3` :`S` `V`T`a`a`] `X`ad`3`d`f`ef[U`E`f`d`S`f`W`[W`e`[ `D`W`S`^`B`a`f`f`U`e`f`b`Y`f]b.`G`h`f`b`V`Y`f[ `D`f`Y`g`g`z`&`\$`%`&`t`

H` \c`a`d`g`c`b`z`B`U`h`z`UbX` ;`f`Y[ `c`f`m`G` \c`Y`h`Y`z`Y`X`g`z`F`Z`W` ;` `f`W`h`W` `f`a` `e`f`e`,`G`e`W`d`e`?`S` `g`S`^`X`ad`f`Z`W`5`d`W`S`f`h`W`6`[e`d`g`b`f`a` `a`X`7`h`W`k`V`S`k`>[X`W`f`7`U`a`V`f]X[ `Y`A`5`A` `H`D`f`Y`g`g`z`&`\$`%`&`t`

H` \c`a`d`g`c`b`z`B`U`h`z`Y`X`z`>[h[ `Y`S`e`8`ad`\_`,`E`a`U[`S`^`k`7` `Y`S`Y`W`3`d`f`X`a`\_` `#`+`+`#`Z`\$` `##`f`7`U`a`V`f]X[ `Y`A`5` `U`b`X`@`c`b`X`c`b`.`A` `H`D`f`Y`g`g`z`&`\$`%`&`t`

K`Y`[Y`Y`z`D`Y`h`f`z`Y`X`z`9` `a`T`S`^`3`U`f`h[e\_`,`3`d`f`S` `V`5`a` `X`[U`f[ `f`Z`W`\$`#`e`f`5`W`f`g`d`k`f`7`U`a`V`f]X[ `Y`A`5` `U`b`X`@`c`b`X`c`b`.`A` `H`D`f`Y`g`g`z`&`\$`%`&`t`



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

=j U'i Y'mci f'ZYXVUW'UbX'k ]`i gY'h\Y'a mθI dYf]YbW'Ubcbmā ci g'gi fj Ymž'Ug'k Y''Ug']b!WUgg'fYZYW]cbž'hc  
]bZcfa `ck'`=g\UdY'Z hi fY'h'UW.]b[ "

Gi Va ]gg]cb`cZ5ggYgga YbhiHUg\_g

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

≠mci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UH`Ya` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`Y`Ug`Y`  
HY`Yd` \cb`Y`9I`HY`fb`U`Gi`ddc`fh`cb`-`,`,)``''`%`cf`Ya`Uj`h`Ya`icb`YI`HY`fb`U`HY`hgi`ddc`fh`4`i`bgk`"YXi`"Ui`""`Gi`ddc`fh`  
\`ci`fg`Uf`Y`,`.\$`\$Ua`-`-%`\$.`\$\$`da`icb`k`YY`\_X`Umg`U`b`X`-`.`.\$`\$Ua`-`,`)`.`.\$`\$`da`icb`k`YY`\_Y`b`X`g`f`l`\*)`X`Umg`U`m`Y`U`f`l`"≠mci`  
Uf`Y`i`b`U`V`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Z`Ji`h`k`]h`Hi`fb]h]b`mci`a`Um`U`dd`m`Z`c`f`U`b`YI`HY`bg]cb`z`Vi`hmc`i`  
a`i`gh`f`Y`h]b`mci`f`h]W`Y`h`bi`a`V`Y`f`Z`ca`9I`HY`fb`U`Gi`ddc`fh`f`U`cb[`k`]h`U`b`m`c`h`Y`f`f`Y`Y`j`U`b`h`X`c`W`a`Y`b`h`g`k`hc`  
]b`Wi`X`Y`U`g`Y`j`]X`Y`b`W`hc`gi`ddc`fh`mci`f`YI`HY`bg]cb`U`dd`]W`h]cb""≠mci`Ya`Uj`9I`HY`fb`U`Gi`ddc`fh`mci`k`j`  
Ui`hc`a`U`h]W`U`m`f`Y`W`]j`Y`U`h]W`Y`h`bi`a`V`Y`f`z`Vi`h]Z`mci`HY`Yd` \cb`Y`mci`k`j`b`Y`Y`X`hc`gd`Y`W`Z]W`U`m`U`g`\_`Z`c`f`cb`Y`"  
Hi`fb]h]b`U`gc`d`fc`j`]X`Y`g`i`d`X`U`h`Y`g`cb`h`Y`]f`g`m`g`h`Ya`ig`h`U`h`g`cb`H`k`]h`Y`f`"

;`Yb`Y`f`U`m`z`U`gg`Y`g`ga`Y`b`h`i`U`g`\_`g`a`i`gh`V`Y`gi`Va`]h`Y`X`Y`Y`W`f`cb]W`U`m`j`]U`Y`]h`Y`f`Hi`fb]h]b`cf`U`A`cc`X`Y`  
U`gg][`ba`Y`b`h`i`h`]b`g`h`U`b`W`g`k` \Y`f`Y`h`g`]g`b`c`h`d`c`g`g]V`Y`z`]h`k`]V`Y`g`h`U`h`Y`X`cb`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`  
U`h`Y`fb`U`h]`Y`gi`Va`]gg]cb`X`Y`h]g`"

:`cf`]b`Z`c`fa`U`h]cb`cb` \ck`hc`gi`Va`]h`U`gg][`ba`Y`b`h`i`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`gh`X`Y`b`h`i`bgk`"YXi`"Ui`#`ck`!  
gi`Va`]h`U`gg][`ba`Y`b`h`i`a`cc`X`Y`"

## 5 WUXYa ]W< cbYgmiUbX`D`U[ ]Uf]ga

D`U[ ]Uf]ga `]g`i`g]b[ `h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[ `h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`\_`Y`a` `U`b`m`  
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[ `h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[ `Z`c`a` `U`g`c`i`f`W` `k` ]h`c`i`h`U`W`\_`b`c`k` `Y`X[ `Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[ ]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k` ]b[ `W`U`h`Y`[`c`f`]Y`g.

- i bXYfghUbx'mci f'f][ \hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wcdmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'UbX'5WWhU'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dYW'X'cZYj Yfmcby'jb'h'Y'I BGK 'Wca a i b]m
- `cWWh'gYfj ]W'g'UbX'j]bZcfa Uhcb'UVci hl 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 bXYfghUbx]b[ 'cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k ]`Y'd'mci 'a U\_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hhd.##ji V'YW'i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

## 5 WUXYa ]W=Zcfa Uh]cb

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[ `tc.

- fYei Ygth]Zc`f`Yl H`bg]cb/
- `Uh`gi Va ]gg]cbg`[ i ]XY`]bYg/
- fYj ]Yk `cZa Uf\_g/
- I BGK `<YU`h`UbX`GUZYmdc`]WYg/
-