

# **POLS5131**

±bgi f[YbWhž'HYffcf]ga 'UbX'Dc`]h]WU`'J ]c`YbW

HYfa "Hk c "# "&\$%

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

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

### 7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWUh]cb	D\cbY
Gf]b^cm6cgY		,	A cfj Yb 6fck bž F cca '%' %	-',)`&'+\$

# GWXcc`7cbHJWhi±bZcfa Uhjcb

GWXcc``cZGcWJU``GWJYbWYg

Fcca '%) -

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d\cbY. '\$&'-',) '% \$+

# 7ci fgY 8YHJ] g

7 fYX]h'Dc]bhg'\*

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

H\]g`Wci fgY`]bfcXi WYg`mci `hc`h\Y`\_YmWcbWYdhgži b]Znjb[ `h\Ya YgžifYbXgžWYbffU``UWcfg`UbX`]ggi Yg fWJi gYg`UbX`glfUhY[]WfYgdcbgYgŁ`]b`h\Y`ghi XmcZ]bgi f[YbWmUbX`hYffcf]ga `]b`h\Y`&\$h\`UbX`&%gh 7 Ybhi f]YgžVi hk]h\`Ub`Ya d\Ug]g`cb`h\Y`Yj c`i hjcb`cZh\Y`d\Ybca YbU`g]bW'h\Y`YbX`cZh\Y`7 c`X`K Uf"\b\ Xc]b[`gcžh\Y`Wci fgY`fYZYWg`cb`gca Y`cZh\Y`\]ghcfJWU``UbX`a cfY`YbXi f]b[`Zcfa g`cZdc`]h]WU`j` j`g`YbWY—Ugma a Yhf]WUbX`]ffY[i`Uf`k UfZJfY—k\]W\`XfUk `UhhYbh]cb`hc`h\Y`i bXYf`m]b[`UbX`Z bXUa YbhU`Wi gYg`cZfYVY``]cb#hYffcf]ga `UbX`fYgdcbgYg`hc`]h'`Mci `k]``Yl d`cfY`\ck `bcb!ghUhY`Ufa YX`[fci dg`cf[Ub]gYh\Ya gY`j YgžYl hfUWfYgci fWYgžXYd`cmj ]c`YbWYZUhffUWfYWfi ]hgžUbX`Vch\`Z][\h\UbX`bY[ch]UhY`k]h\`ghUhYg" Mci `k]```U`gc`Yl d`cfY`h\Y`bUhi fY`UbX`W\U``Yb[Y`cZ[`cVU``hYffcf]ga `Uwfcgg``Yj Y`g`cZUbU`mg]gžZcW g]b[`cbh\Y`fYgdcbgYg`UbX`ghfUhY[]Yg`cZVch\`bcb!ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`UbX`ghUhY`JghcfmžhYffcf]ga `UbX`Wci bhYf!]bgi f[YbWnghi X]Yg`hc`Yl Ua`]bYž]b`U`\c`]ghjWa UbbYfžh\Y`Uhjcbgždc`]hjWU``gW]YbWf`Z\]ghcfmžhYffcf]ga `UbX`Wci bhYf!]bgi f[YbWnghi X]Yg`hc`Yl Ua`]bYž]b`U`\c`]ghjWa UbbYfžh\Y`Uhjcbgždc`]hjWU``gW]YbWf`Z\bhYa dcfUfmdc`]hjWU``j ]c`YbWf"

#### 7 ci fgY @YUfb]b[ 'Ci hWca Yg

- %" 7 f]h]WU``mYI Ua ]bY'\_YmWcbWYdhg`UbX`i b]Zm]b[ 'h\Ya Yg`]b`h\Y`h XmcZ]bgi f[ YbWhž'hYffcf]ga ž'UbX dc`]h]WU``j ]c`YbWY
- &" 5ddfU]gY`\_Ymih\YcfYh]WU``UddfcUW\Yg`hc`h\Y`ghi XmcZ]bgi f[YbWhž'hYffcf]ga `UbX`dc`]h]WU``j ]c`YbW''
  " 5bU`mgY`UbX`Yj U`i UhY`WYbhfU``UWcfg`UbX`]ggi Yg`fWUi gYg`cZhYffcf]ga `UbX`ghfUhY[]WfYgdcbgYg`hc
  hYffcf]ga Ł`]b`h\Y`ghi XmcZ]bgi f[YbWhž'hYffcf]ga ž'UbX`dc`]h]WU``j ]c`YbWY

#### HYUWX]b[ 'GhfUhY[]Yq'

H\]g'dcgh[fUXi UhY'Wci fgY']g'hUi [\hU\fcgg[\VdU'khYhX\_6mikc!\ci f'gYa]bUfz'U\fcgg'hYb'kYY\_g"'H\YfY'k]` kc'UXXU'gc'VY'hkc'cb']bY'U\fg']h]yg'f]b'`]Yi 'cZhkc'UXX]h]cbU``ZJ\W!hc!ZJ\W'gYa]bUfg\z''5ggYggaYbhg'UfY'XYg][bYXhc'U``ck'mci 'ZYl]V]`]mUbX'\Xc]\W'z'UbX'mci 'k]``VY'fYei]fYX'hc'XYacbghfUhY'Yb[U[YaYbhU\fcgg'\cita]fgY

# 5ggYgga Ybh

5```UggYgga Ybhg'a i ghVY'gi Va ]hhYX'Y`YWfcb]WU``mcb`mžh\fci [\'h\Y'fY`Yj UbhUggYgga Ybh'Hi fb+hb'dcfhU`]b'A ccX'Y"'H\YfY']g'bc'\UfX'Wcdmgi Va ]gg]cb'fYei ]fYX"'D`YUgY'Ybgi fY'h\Uhmci f'bUa Y'UbX'ghi XYbh'+8 bi a VYf'UfY'cb'Yj YfmdU[Y'cZmci f'gi Va ]gg]cb"'Mci 'UfY'bchfYei ]fYX'hc'UhhUW\'U'Wcj Yf'g\YYhhc YYWfcb]WU``mgi Va ]hhYX'UggYgga Ybhg"

K \Yb'mci 'gi Va ]h'Ub'UggYgga Ybh'Uh'I BGK žmci 'UfY'UW\_bck 'YX[]b['h\Uh'mci '\Uj Y'i bXYfghccX'UbX
UV]XYX'Vmh\Y'I b]j Yfg]lmfYei ]fYa Ybhg']b'h\Y'dfYdUfUh]cb'cZh\Uh'UggYgga Ybh]hYa ž']b'fYgdYWicZghi XYbh
UWUXYa ]Wa ]gWcbXi Wici h]bYX']b'h\Y'Ghi XYbh7cXY'Dc']WmUbX'Ghi XYbhA ]gWcbXi WiDfcWYXi fYgž'Vch\'cZ
k\]W\'UfY'Uj U]`UV'Y'Uh'\hdg.#ghi XYbh'i bgk "YXi "Ui #WcbXi Wi'Mci 'UfY'U'gc'XYWUf]b['h\Uh'h\Y
UggYgga Ybh]hYa ']g'mci f'ck b'k cf\_žYI WYdh'k\YfY'UW\_bck `YX[YXž'UbX'\Ug'bchVYYb'gi Va]hhYX'Zcf
UWUXYa ]WWWXXJadfWJAfXiXg\majbYkj ka'Yj`cnf]b'b\Uh'ft'Y'cf']b'dUfh''=b'UXX]hJcbž'mci 'gi Va]hh\Y'UggYgga Ybh]b'h\Y

5ggYgga Ybh'hUg_	K Y][\h	8iY'8UHY	Gh XYbh@YUfb]b[ Ci hWca Ygʻ5ggYggYX
GYa]bUf`DfYgYblUlf]cb`	&\$ı	J Uf]ci g	%Ž
7 f]h]WU`FYj ]Yk '9ggUm	' \$1	%%#\$+#&\$%-`%%'\$`DA	%ž&
FYgYUfV% '9ggUm'	) \$1	%) #\$, #&\$% `%%' \$`DA	%ž&Ž

#### 5ggYgga Ybh'8YHJ]`g

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GhUfh'XUhY. 'J Uf]ci g

@Yb[h\. %)!&\$ a ]bi hYg

8YHJ]`g. '%) ! &\$ 'a ]b 'WUgg'dfYgYbhUh]cb 'UbX'ZJW]`]HUh]cb 'VUgYX'cb 'fYei ]fYX'UbX'fYW&a a YbXYX'fYUX]b[ g" Mci 'k ]```dfYgYbhY]h\Yf`cb 'mci f`ck b`cf`Ug'dUfhcZU'dU]f"Gh XYbhg'dfYgYbh]b[ ']b`dU]fg`k ]```VY 'a Uf\_YX ]bX]j ]Xi U``m'`Mci 'k ]``fYW]Yj Y`k f]hh\b 'ZYYXVUW\_'UbX'U'[ fUXY'k ]h\]b '%\$ 'k cf\_]b[ 'XUmg'cZmci f`ZJW]']HUh]cb"'

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

5ggYgga Ybh& 7f]hJWU`FYj]Yk '9ggUm

GhUfhXUhY. Bch5dd`\WVY

@Yb[h\.'%)\$\$

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

5ggYgga Ybh' . F YgYUfW 9ggUm

GhUfhXUhY. Bch5dd`]WUV`Y

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 $8YHU]^*g. " $$\$'k cfX'fYgYUfW. "YggUm''Mci''k ]^``fYW]Yj Y'k f]HHYb'ZYYXVUW_"UbX'U'[fUXY'k ]h\]b''% k cf_]b['XUmg cZmci f'ZUW]']HUH]cb''$ 

 $\label{thm:limit} \begin{tabular}{ll} Hi & fb \end{tabular} $$ $H \ fb \end{tabular} $$ fo \end{tabular} $$ Hi & fb \end{tabular} $$ fo \end{tabular} $$ fo \end{tabular} $$ fo \end{tabular} $$ Hi & fb \end{tabular} $$ fo \en$ 

#### 5 https://bxubww.F.Yei ]fYa Ybhq

Mci 'UfY'fYei ]fYX'hc'UhhYbX', \$I 'cZWUgg'WcbHUWi\ci fg'f]"Y"'gYa ]bUfg'UbX'cb`]bY 'YUfb]b[ 'UWhj ]hJYgŁ'Zcf h\]g'Wci fgY"'B chY'h\Uh]b'UXX]hJcb'hc'%\$'ZUWY!hc!ZUW'gYa ]bUfg'mci 'k ]``'U'gc'Yb[ U[ Y'k ]h\ &'cb']bY 'YUfb]b[ UWhj ]hJYg'h\Uhk ]``'fYei ]fY'h\Y'Wca d'YhJcb'cZgca Y'Zcfa 'cZUh\ca Y'#]bXYdYbXYbh'YUfb]b[ 'UWhj ]hm''H\]g a YUbg'Zcf'h\Y'%&'ZUWY!hc!ZUW'gYa ]bUfg'UbX'cb`]bY'UWhj ]hJYgž'mci 'UfY'fYei ]fYX'hc'UhhYbX'U'a ]b]a i a 'cZ %\$'fhci 'WUb'a ]gg'i dhc'cb'm&'gYa ]bUfg'#cb`]bY'YUfb]b[ 'UWhj ]hJYgŁ'': U]'i fY'hc'UhhYbX', \$I 'cZgYa ]bUfg'#cb`]bY'`YUfb]b[ 'UWhj ]hJYgŁ'': U]'i fY'hc'UhhYbX', \$I 'cZgYa ]bUfg'#cb`]bY'`YUfb]b[ 'UWhj ]hJYgŁ'': U]'i fY'hc'UhhYbX', \$I 'cZgYa ]bUfg'#cb`]bY'`YUfb]b[ 'UWhj ]hJYgk'': U]'i fY'hc'UhhYbX', \$I 'cZgYa ]bUfg'#cb`]bY'`YUfb]b[ 'th\Y'a U'cf'YggUmZcf'h\]g'Wci fgY''

5 'ghi XYbhik \c'Uffjj Yg'a cfY'h\Ub'%) 'a ]bi hYg'`UhY'a Um'Y'dYbU`]gYX'Zcf'bcb!UhYbXUbW'''=Zgi W\'U'dYbU'm ]g']a dcgYXz'h\Yghi XYbha i gh'VY']bzcfa YX'j YfVU``mUhih\Y'YbX'cZWUgg'UbX'UXj ]gYX']b'k f]hjb['k]h\]b'&(\ci fg'''=ZU'ghi XYbhYl dYf]YbW'g']`bYggz'a ]gUXj Ybhi fY'cf'ch\Yf'c\W\ ffYbW''h\Uha U\_Yg'UVgYbW'''zca 'U gYa ]bUf'gYgg]cb'#cb`]bY'UWjj ]mii bUj c]XUV'Yzcf'Yl dYWg'hc'VY'UVgYbh'zca 'U'Zcfh\wa ]b[ gYgg]cb#UWjj ]mz'h\Ymg\ci \X'gYY\_'dYfa ]gg]cb'zca 'h\Y'7 ci fgY'5i h\cf]m#7 cbj Ybcfz'UbX'k \YfY Udd']WUV'Yz'h\Y]f'fYei Yghg\ci \X'VY'UWw'a dUb]YX'VmUb'cf][]bU''cf'WffjZJYX'WcdmcZU'a YX]WU'WffjZJWUhY cf'ch\Yf'zcfa 'cZUddfcdf]UhY'Yj ]XYbW'''5 '7 ci fgY'5i h\cf]m#7 cbj Ybcf'a UmYl W gY'U'ghi XYbhzca WUggYg'cf'UWjj ]hjYg'zcfi d'hc'cbY'a cbh\"'< ck Yj Yfzh\Yma UmUgg][ b'UXX]hjcbU''UbX\*&f'U'hYfbUhji Y'HUg\_g'hc Ybgi fY'Wca d']UbW'''5 '7 ci fgY'5i h\cf]m#7 cbj Ybcf'wcbg]XYf]b[ 'h\Y'[ fUbhjb[ 'cZUVgYbW'' a i gh'Y' gUhjgZYX'U'ghi XYbhik ]``ghj``VY'UV'Y'hc'a YYhh\Y'Wci fgY'g'`YUfb]b[ 'ci h\X'a Yg'UbX\*&f'j c'i a Y'cZ'YUfb]b[ "'5 ghi XYbhigYY\_]b[ 'Uddfcj U'`hc 'VY'UVgYbh'Zcf'a cfY' h\Ub'cbY'a cbh\ a i gh'Udd`m]b'k f]hjb[ 'hc'h\Y'8 YUb'UbX dfcj |XY'U'``cf][]bU''cf'WffjZyX'gi ddcfhjb[ 'XcW a YbhUhjcb'': cf'a cfY']bZcfa Uhjcb'Uvci hh\Y'UhiybXubV dfchcWc'g']bh\Y: UW` 'mcZ5ffg'UbX'GcWjU''GWybW'g. \hdg.##k k k "Uffg"i bgk "YXi "Ui #W ffYbh qhi XYbhg#UWXYa |W|bzcfa Uhjcb#dfchcWc'q![ i |XY']bYg#

### 7ci fgY GWX YXi `Y

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

#### H]a YHJV`Y

8 UHY	HmdY	7 cbhYbh
K YY_'%'' '>i bY'!'+'>i bY	GYa ]bUf	H\Y`Dc`]hJWg`cZP
		EW_[SdV[e_g_o_u cgwer[a e

### FYgci fWyg

#### DfYgWf]VYX F Ygci fWyg

GYa ]bUf'ei YghJcbg'UbX'XYhJ]YX'k YY\_!Vmk YY\_fYUX]b[ ']g'a UXY'Uj U]'UV'Y'cb'A ccX'Y''5```cZh\Y'fffYei ]fYXfi fYUX]b[ g'UfY'\overline{T}YY`mUj U]'UV'Y'h\fci [ \ 'A ccX'Y'j ]U'@Y[ Ubhc/h\Y'fYgh\Wb'VY'U\W\ggYX']b'\UfX'\Cdmh\fci [ \ 'h\Y']\VfUfmcf'cb`]bY'''\nci 'k ]```\VYbY\overline{T}\cap \cdot '\y\cdot '\alpha ]b[ '\overline{T}\h\Y'fYgh\Wb'VY'U\W\ggYX']b'\UfX'\Cdmh\fci [ \ 'h\Y']\VfUfmcf'cb`]bY'''\nci 'k ]``\VYbY\overline{T}\cap \cdot '\y\cdot '\alpha ]b[ '\overline{T}\h\Y'fYgh\Wb'VY'U\W\ggYX']b'\Uf\frac{\cdot '\y\cdot \cdot '\y\cdot \cdot '\y\cdot \cdot '\y\cdot \cdot '\y\cdot \cdot \cdot '\y\cdot \cdot \cdot '\y\cdot \cdot \cdot '\y\cdot \cdot \

#### FYWca a YbXYX FYgci fW/g

#### 7 ci fqY '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

Image: Ybwb: bh/f'u'dfcv'ya k \yb'uhh/a dh/b[ 'hc'gi va ]hmci f'ugg][ ba Ybhh\fci [ \ 'Hi fb]h/bž'd'YugY

HY'Yd\cbY'9| h/fbu''Gi ddcfhcb'-', ) '' ' ' %cf'Ya U] 'h\Ya 'cb'Y! h/fbu'h/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" Image: UfY'i bUV'Y'hc'gi va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\ 'Hi fb]h/b'mci 'a UmUdd'mZcf'Ub'Y! h/bg]cbž'Vi hmci
a i ghfYhJ]b'mci f'h/w\_Yhbi a VYf'Zfca '9! h/fbu''Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'YY] UbhXcW a YbhgŁ'hc
]bWi XY'Ug'Yj ]XYbW'hc'gi ddcfhmci f'Y! h/bg]cb'Udd']WJh/cb" Image: Ya U]''9! h/fbu''Gi ddcfhmci 'k ]'`
Ui hca Uh/WJ'mfYW'] Y'U'h/w\_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k ]'`'bYYX'hc'gdYW/ZWJ'`mUg\_'Zcf'cbY''
Hi fb]h/b'U'gc'dfcj ]XYg'i dXUh/g'cb'h\Y]f'gmghYa 'ghUh' g'cb'Hk ]hYf"

; YbYfU``mž'UggYgga YbhiHug\_g'a i ghVY'gi Va ]hhYX'Y`YVWfcb]\W)``mj ]U'Y]h\Yf'Hi fb]hjb'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'\\circ i fgY'g'A ccX`Y'g]hY'k ]h\ U`hYfbUhj 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 `]g`i g]b[ 'h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b[ 'h\Ya `Ug`mci f`ck b"'\lefi\Wb'hU\_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b[ 'hc`UVW]XYbhU`mWcdm]b[ 'Zfca `U`gci f\W' 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['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\_jb['k]h\ch\Yfg'Vi hdUgg]b['cZZh\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'ghi XYbhVYZcfY'h\Y'Xi Y'XUhYžcf'Zcf'h\Y'di fdcgY'cZh\Ya d`U[]Uf]g]b['UhiUbmh]a Yž'dUm]b['Ubch\Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa ]WhUg\_ž'ghYU']b['cf'UWei]f]b[ Ubch\Yf'dYfgcb'g'UWUXYa ]Wk cf\_'UbX'Wcdm]b[']hz'cZYf]b['hc'Wca d'YhY'Ubch\Yf'dYfgcb'g'k cf\_'cf'gYY\_]b[ dUma YbhZcf'Wca d'Yh]b['UWUXYa ]Wk cf\_"

±bUddfcdf]UhY`W]hUh]cb.`7]h]b[ˈgci fWYg'k\]WX`\Uj Y`bchVYYb`fYUXžk]h\ci hUW\_bck`YX[]b[`h\Y`″gYWcbXUfm″gci fWY`Zfca 'k\]WX`\_bck`YX[Y`cZh\Ya`\Ug'VYYb`cVhU]bYX"

# 5 WUXYa ]W±bZcfa Uhjcb

: cf'YggYbhJU`gh XYbh]bZcfa UhJcb'fY`UhJb['hc.

• fYei YghgʻZcfʻYl hYbg]cb/