

# **LING5035**

GYa UbhjWgʻUbXʻDfU[a UhjWg

HYfa 'H\fYY''##'&\$&\$

# 7ci fgY<sup>·</sup>Cj Yfj ]Yk

# GhJZZ 7 cbhJWh 8 YhJ] `g

## 7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWUh]cb	D\cbY
8YVfU <sup>*</sup> 5Ufcbg	, and the second	GYbX'Ya U]`'hc'a U_Y Ub'cb']bY Uddc]bha Ybh	•	7 cbHJWhj ]U Ya U]`

## 7ci fgY 8YHJ] g

#### 7 fYX]hDc]bhg\*\*

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

#Dirk ]g Wci fgY mci k ] ``Yl d`cfY h Y b Uhi fY Ub X g WcdY c Z g Ya Ubhj Wg Ub X d f U [ a Uhj Wg Ub X h Y ] f d`UWY k ] h ] b @ ] b [ i ] ghj Wg "Hcd] Wg "] b g Ya Ubhj Wg "] b Wi XY. h Y b Uhi fY Ub X Ub U mg] g c Z Yl ] WU `a Y Ub ] b [ g z h Y f Y `Uhj c b g \] d V Y hk Y Y b a Y Ub ] b [ 'Ub X Wc [ b] hj c b z h Y f Y `Uhj c b g \] d V Y hk Y Y b g Ya Ubhj Wg "Ub X [ f Ua a Uf z Ub X g Ya Ubhj W W Ub [ Y "Hcd] Wg `] b d f U [ a Uhj Wg `] b Wi XY. g d Y Y W UWhih Y c f m z d c `] h Y b Y g g h Y c f m z ] a d`] WUhi f Y `Ub X d f Y gi d d c g] hj c b " Mci k ] ``` \ Uj Y h Y c d d c f h b] m hc Y b [ U [ Y k ] h `Ub X Ub U mg Y [ Y b ] b Y ``] b [ i ] g hj W X Uh U " Mci k ] ``` Udd `m h Y g Y `] X Y Ug b c h c b `m hc '9 b [ `] q \ z V i h h c c h Y f ``Ub [ i U [ Y g mci \_\_b c k "

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

- %" 8 ]gh]b[i ]g\`Ua cb[`h\Y`WcbWYdhg`cZgYbhYbWY`a YUb]b[ži hhYfUbWY`a YUb]b[`UbX`gdYU\_Yf`a YUb]b[&" 5dd`mUddfcdf]UhY`XYgWf]dh]j Y`UbX`UbU`mh]WdfcWYXi fYg`hc`h\Y`Z]Y`X`cZ]bei ]fmcZdfU[a Uh]Wg`UbX`]hg fY`Yj UbhWcbWYdhi U``Uqqi a dh]cbg"``
- ' " 5dd`miUddfcdf]UHY`XYgWf]dHjj Y`UbX`UbU`mHjWU``dfcWfXi fYg`hc`h\Y`Z]Y`X`cZ`YI ]WU`ž'd\fUgU``UbX gYbHYbHjU``gYa UbHjWg''`
- ("5bU'mgY'`]b[i]gh]WXUhU'UbX'Uf[iY'h\Y'aYf]hg'cZh\Y'UbU'mg]g"

#### HYUWX]b[ GlfUhY[]Yg

``H\]g`Wci fgY`]g`Ub`]bhY[fU``Wca dcbYbhcZh\Y``]b[i]gh]Wg`W ff]W`i a "`±b`cfXYf`hc`i bXYfghUbX`h\Y`Wc[b]hj Y UbX`gcW]U``X]a Ybg]cbg`cZ`Ub[i U[Y`]h]g`YggYbh]U``hc`]bj Ygh][UhY`h\Y`cf[Ub]gUh]cb`cZh\Y`gYa Ubh]WgmghYa ž UbX`h\Y`bUhi fY`cZh\Y`df]bW|d`Yg`cZdfU[a Uh]Wg"```

# 5ggYgga Ybh

@YWhifYaik 1``'VY'dfc	i IXYX 'Uamb\W fabai a`mž'h\ Uh`laž'mai	i 'k ]``'VY'UV`Y'hc'`]ghYb'cb!`]bY'Uh'h\Y'gW\YXi `YX
ervirigit ji vi dic	JATA OGIID WIEDET G IIZIKOTIJGZITET	i kj vi ov i të jgjilo eb. joi otitiki gvikiti it

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

5ggYgga Ybh' . 7`Ugg HYgh=UbX &

GhUfhXUhY. Bch5dd`]WUV`Y

8YHJ]`g.

 $-\$ia\ ]bi\ hYg'YUWX"''\ \$i\ YUWX"''HYghg'Wcj\ Yf'WcbhYbhidfYgYbhYX']b'`YWhi\ fYg'UbX'hi\ hcf]U`g'''K\ f]hhYb'UbX'cfU`\ ZYYXVUW_$ 

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

H\YfY`UfY`&`]b!WUgg`hYghg"`H\Y`Z[fgh]g`cb`%) #%\$`Uh\%%5A`UbX`h\Y`gYWcbX`]g`cb`%&#\%Uh\%%5A`"

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

## 5 https://bxubwww.Fyei]fYaYbhg

Ghi XYbhgʻUfYʻghfcb[`miYbWci fU[YX'hcʻUhhYbX'U```WUggYgʻUbX'fYj ]Yk '`YWhi fY`fYWcfX]b[g"

# 7ci fgY GWX YXi `Y

#### J]Yk 'WUgg'hja YHUV'Y

## H]a YtUV`Y

8 UHY	HmdY	7 cbhYbh
K YY_'%'%('GYdhYa VYf'! %'GYdhYa VYf	@YWhi fY	A YUb]b[žH\ci[\hUbXFYU`]hm
7g Crania VII		GUYYX'7\UdhYfg'%'UbX'&
	C b`]bY'5Whjj ]hm	Gh XYbhg k UhW Mci h VY j ]XYcg UbX Wca d YhY
		UWNj ]hjygʻcb`]by
K YY_'&.'&%GYdhYa VYf'! &)'GYdhYa VYf	@YWhi fY	K cfX'A YUb]b[
		GUYYX <sup>.</sup> 7\UdlYf''
	Hi hcf]U`	GUYYX <sup>7</sup> \UdYf <sup>3</sup> %'UbX <sup>3</sup> &
	C b`]bY'5Whjj]hm	Ghi XYbhgʻk UhWX Mci hi VYʻj ]XYcgʻUbXʻWca dʻYhY UWhjj ]hjYgʻcb`]bY
K YY_" ."&, "GYdhYa VYf"! &"C WcVYf	@YWhi fY	GUYYX'7\UdhYf'(
		GYbhYbWY FY`Uhjcbg UbX Hfi h\
	Hi hcf]U`	GUYYX.7\UdlYf"
	C b`]bY'5Whjj]hm	Ghi XYbhgʻk UhWX Mci hi VYʻj ]XYcgʻUbXʻWca dʻYhY
		UW1j JhjYgʻcb`]bY
K YY_'(.') 'C WcVYf'!'- C WcVYf	@YWhi fY	GUYYX'7\UdhYf')
		7`Ugg]Zm]b['G]hi Uh]cbg
	Hi hcf]U`	GUYYX <sup>.</sup> 7 \UdlYf <sup>.</sup> (
	C b`]bY'5Whjj]hm	Ghi XYbhgʻk UhWX Mci hi VYʻj ]XYcgʻUbXʻWca dʻYhY UWhjj ]hjYgʻcb`]bY
K_YY_^).^%&^CWhcVYf^!^%*	Hi hcf]U`	GUYYX'7\UdhYf')
C Wc VYf	Cb`]bY'5Whjj]hm	Ghi XYbhgʻk UhW. Mci hi VYʻj JXYcgʻUbXʻWca dʻYhY UWhj JhjYgʻcb`]bY
	5ggYgga Ybh	7 `Ugg`HYgh'%
		H]a YX'hYghcb`]bY'Xi f]b['h\Y'`YWh fY'dYf]cX
K YY_'*.'%-'CWvcVYf'!'&' CWvcVYf	Cb`]bY'5Whjj]hm	Ghi XYbhgʻk UhW\ Mci hi VYʻj ]XYcgʻUbXʻWca dʻYhY UWhji ]hjYgʻcb`]bY
K YY_"+."&*"C WcVYf"!" \$ C WcVYf	@YWn fY	GUYYX'7\UdhYf'*
		DUffjWjdUbhg`jb`GYbhYbWY`A YUbjb[
	Hi hcf]U`	8]gW gg 7 `Ugg HYgh'%
	Cb`]bY'5Whjj]hm	Ghi XYbhgʻk UhWX Mci hi VYʻj JXYcgʻUbXʻWca dʻYhY UWNji JhjYgʻcb`]bY

K YY_', .`&'Bcj Ya VYf'!`* Bcj Ya VYf	@YVVni fY	GYYX <sup>-</sup> 7\Udl <del>Y</del> f <sup>-</sup> +
		7 cbhYl hUbX ∍bZYfYbWV
	Hi hcf]U`	GUYYX.7\UdlYf.*
	C b`]bY'5WNj ]hm	Ghi XYbhgʻk UhWXʻMci hi VYʻj ]XYcgʻUbXʻWca dʻYhY UWnjj ]hjYgʻcb`]bY
K YY_''- 'Bcj Ya VYf'! % 'Bcj Ya VYf	@YWn fY	7\Uda Ub'7\UdhYf" 'UbX'(
		7`Ugg]W@]b[i]gh]WDfU[aUh]Wg
	Hi hcf]U`	GUYYX'7\UdhYf'+
	5ggYgga Ybh	7`Ugg'HYgh'&
		H]a YX'hYghcb`]bY'Xi f]b['h\Y``YWi fY'dYf]cX
	Cb`]bY'5WNjj]hm	Ghi XYbhgʻk UhWXʻMci hi VYʻj JXYcgʻUbXʻWca dʻYhY UWnjj JhjYgʻcb`jbY
K YY_`%\$.`%*`Bcj Ya VYf`! &\$`Bcj Ya VYf	@YWn fY	7\Uda Ub 7\UdhYf)
		A cXYfb DfU[a Uh]Wg
	Hi hcf]U`	7\Uda Ub'7\UdhYf'' 'UbX'(
	Cb`]bY <sup>·</sup> 5W <b>f</b> j]]hm	Ghi XYbhgʻk UhW\ʻMci hi VYʻj ]XYcgʻUbXʻWca dʻYhY UWhjj ]hjYgʻcbʻ]bY

### FYgci fW/g

#### DfYgWf]VYX F Ygci fWYg

 $6cc_{-}GYa UbhJWg'f&$\%'' + GUYYXž'>''' + GB!\%'' - +, -\% - ($' - -, *' \%' 'MYUf'&$\%'' 9XJhJcb''(h\'Di V')g\Yf'K JYm 6'UW_k Y'''$ 

6cc\_'-'DfU[a Ut]\\g'f&\$\\L'7\Uda Ubž'Gž'-\G6B'-+,!\\$!&\\$!\&\\\'!' '\\M\Uf'\&\\$\\DU'\[f\U]\\Y'\AcXYfb\@]b[i]g\]\\g

#### FYWca a YbXYX FYgci fWyg

H\YgY'k]``'VY'gi dd`]YX'Ug'h\Y'hYfa 'dfc[fYggYg

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

## Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

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

Image: Ybwei bhyfu'dfcv'ya k \yb'uhhya dhjb[ 'hc'gi va ]hmci f'Ugg][ ba Ybhh\fci [ \ 'Hi fb]h]bž'd'YUgY

Hy'Yd\cby'9| hy'fbu''Gi ddcfhcb'-', ) '' ' ' %cf'Ya U]''h\Ya 'cb'Y! hy'fbu'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'''=Z'mci
UfY'i bUV'Y'hc'gi va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\ 'Hi fb]h]b'mci 'a Um'Udd'mZcf'Ub'Y! hy'bg]cbž'Vi hmci
a i ghfYhJ]b'mci f'h]W\_Yhbi a VYf'Zfca '9! hy'fbU''Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fy'Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj ]XYbW' hc'gi ddcfhmci f'Y! hy'bg]cb'Udd']WUh]cb"'=Zmci 'Ya U]''9! hy'fbU''Gi ddcfhmci 'k ]'`
Ui hca Uh]WJ'`mfYW']j Y'U'h]W\_Yhbi a VYfZ'Vi h]Zmci 'hY'Yd\cbY'mci 'k ]``bYYX'hc'gdYW]Z]WJ'`mUg\_'Zcf'cbY''
Hi fb]h]b'U'gc'dfcj ]XYg'i dXUhy'g'cb'h\Y]f'gmghYa 'ghUh' g'cb'Hk]hyf''

; YbYfU`mž'UggYgga YbhiHug\_g'a i ghVY'gi Va ]hhYX'Y`YVWfcb]\WJ``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'\\circ i fgY'g'A ccX`Y'g]hY'k ]h\U`hYfbUh]j Y'gi Va ]gg]cb'XYHJ]`g"

cfi]bZcfa Uhjcbicbi\ckihcigi Va ]hUgg][ ba Ybhgicbi]bYij ]UiA ccXiY.i\hdg.#gh XYbhi bgk "YXi "Ui #\ck! gi Va ]hUgg][ 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±i\WbihU\_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiW\YUh]b[ihciU\W]XYbhU`m\wcdm]b[iZfca iUigci f\Wik ]h\ci hiU\w\_bck iYX[Ya Ybh'

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 cghmfYhU]b]b['h\Y'cf][]bU' ghfi WhifY'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa UhJcb'k]h\ci hUW\_bck 'YX[Ya Ybh'H\]g'U'gc Udd']Yg']b'dfYgYbhUhJcbg'k\YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]hUbX'hc d]YW]b['hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk'k\c'Yž'k]h\ci h'Uddfcdf]UhY'fYZYfYbW]b['"

7 c``i g]cb. 'k cf\_]b[ 'k ]th 'cth\Yfg'Vi hdUgg]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\_'hc'Ubch\Yf'ghi XYbhVYZcfY'h\Y'Xi Y'XUhYžcf'Zcf'h\Y'di fdcgY'cZth\Ya d`U[ ]Uf]g]b[ 'UhUbmh]a YždUm]b[ 'Ubch\Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa ]WhUg\_žghYU`]b[ 'cf'UWei ]f]b[ Ubch\Yf'dYfgcb'g'UWUXYa ]Wk cf\_'UbX'Wcdm]b[ ']hz'cZYf]b[ 'hc'Wca d`YfY'Ubch\Yf'dYfgcb'g'k cf\_'cf'gYY\_]b[

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbhUhI BGK
   VY'Uk UfY'cZd`U[]Uf]ga ž'Wcdmf][\hz'I BGK 'Gh XYbh7cXY'cZ7cbXi WhUbX'5VWWdhUV`Y'I gY'cZ IBGK =7 HF Ygci fWrg Dc`]Wh

# 5WUXYa]W±bZcfaUhjcb

: cf'YggYbhJU`ghi XYbh]bZcfa UhJcb'fY`UhJb['lc.