

## A $\emptyset$ ``Yf'j cf'=hU`]Yb!K YWXgY`.'57': `cfYbn\_\_`cdZh'VY]'6YfUhYf'Ub°

H\ca Ug`A Ø``Yf`\_ÒbbhY`XYb`: 7`6UmYfb'j Yf`UggYb'i bX'ni : ]cfYbh]bU'k YW\gY`b"'8YhU]`g'ni '?cbhU\_hYb'i bX'a Ò[`]W\Yb Cdh]cbYb"



: `cfYbnž'=hU`]Yb'!'H\ca Ug'A Ø``Yfž'XYf``Ub['À\f][Y'GhUf'XYg': 7 6UmYfb'A ØbW\Ybž'k]fX'XYb'J YfY]b'bUW\'X]YgYf'GU]gcb'j Yf`UggYb" 8]Yg'k i fXY'j cb'j YfgW\]YXYbYb'E i Y``Ybž'XUfi bhYf'cd!cb`]bY"XYž VYghÀh][h''8Yf'' (!'À\f][Y'5b[fY]ZYf'VYZ]bXYh'g]W\'Ui Z 5VgW\]YXghci fž'i bX'gY]b'ni \_ØbZh][Yf'JYfY]b'\_ObbhY'XYf'57 : `cfYbn'gY]b"'8Yf']hU`]Yb]gW\Y'HfUX]h]cbg\_`i V'\Uh'VYfY]hg'?cbhU\_h a ]h'A Ø``Yfg'6YfUhYf'Ui Z[Ybca a Yb'i bX'Y]b'\_cb\_fYhYg'+bhYfYggY Ub'Y]bYf'JYfdZ]W\hi b['g][bU`]g]Yfh'

@Ui h'HfUbgZYfYl dYfhY'; ]Ub`i WU'8]'A Ufn]c'\Uh': `cfYbn'g]W\'ØVYf Y]bYb'a Ò[`]W\Yb'K YW\gY`'j cb'A Ø``Yf']bZcfa ]Yfh"'8Ug'HYUa 'gi W\h bUW\'A Ò[`]W\\_Y]hYbž'XYb'8Yi hgW\Yb'ni 'j YfdZ]W\hYbž'Ui W\'k Ybb XYfnY]h'bcW\'\_Y]b'8YU``ni ghUbXY'[Y\_ca a Yb']gh"'9]b'a Ò[`]W\Yf  $\label{thm:local-condition} HfUbgZYf'\_ObbhY'YXcW\']b'X]Y': i * ghUdZYb'Y\Ya U`][ Yf'6UmYfb! Gd]Y`Yf'k ]Y': fUbW_'F]VÅfm'i bX'A Uf]c'; ca Yn'ZØ\fYbž'X]Y'VY]XY'ni : `cfYbn'k YW\gY`hYb"$ 

## < YfUi gZcfXYfi b[Yb i bX A O[ ]WX \_Y]hYb

9]b'<]bXYfb]g'ZØf'XYb'HfUbgZYf'\_ÒbbhY'XUg'\c\Y'; Y\U'h'j cb
A Ø``Yf'VY]a :: 7'6UmYfb'gY]b"'8Yf'Gd]Y`Yf'\Uh'U\_hi Y``'Y]b
9]b\_ca a Ybž'XUg'\_Y]b']hU`]Yb]gWXYf'JYfY]b']a 'A ca Ybh'V]YhYb
\_Ubb"'8YbbcWX'\_ÒbbhY'A Ø``Yf']b': `cfYbn'X]Y'A Ò[`]WX\_Y]h'\UVYbž
VYZfY]h'Ui Zni ggd]Y`Yb'i bX'X]Y'GhUXh'ni '[Yb]Y»Yb"'8]Y': ]cfYbh]bU
V]YhYh'Y]b']XYU`Yg'I a ZY`X'ZØf'YfZU\fYbY'DfcZ]g'i bX'\_ÒbbhY'gca ]h
Y]bY'UhhfU\_h]j Y'Cdh]cb'XUfghY``Yb"

 $9g`[]Vh`bcWX`\_Y]bY`cZZ]n]Y``Y`FØW\_a Y`Xi b[`j cb`A Ø``Yfg`5[YbhYbUi Z`X]Y`5bZfU[Y`XYf`: ]cfYbh]bU"`8Yf`Gd]Y`Yf`d`Ubhž`bUWX`XYf GU]gcb`j YfgWX]YXYbY`A <math>O[`]WX\_Y]hYb`ni `dfØZYbž`VYj cf`Yf`Y]bY 9bhgWXY]Xi b[`hf]ZZh"`\#\`XYb``YhnhYb`K cWXYb`\Uh`A Ø``Yf`VYhcbhž XUgg`Yf`g]WX`Ui Z`X]Y`U\_hi Y``Yb`gdcfh`]WXYb`<YfUi gZcfXYfi b[Yb`a]h 6UmYfb`_cbnYbhf]YfYb`a <math>OWXhY"`8YbbcWX`]gh`i b\_`Ufž`cV`A Ø``Yf gY]bY`?Uff]YfY`k Y]hYf\]b`ZcfhgYhnYb`k]fX`cXYf`cV`Yf`5b[YVchY`Ui gUbXYfYb`@AbXYfbž`k]Y`GUi X]!5fUV]Ybž`XYf`A @G`cXYf`gc[Uf`XYa VfUg]`]Ub]gWXYb`?`i V`Dcfhc`5`Y[fY`]b`6YhfUWXh`n]Y\Yb`k]fX"$ 

## K YW gY`a O[`]W \_Y]hYb i bX ?cb\_i ffYbn

 $BYVYb: `cfYbn'nY][ h'Ui WX ' + bhYf'A U]` UbX' + bhYfYggY' Ub'XYa YfZU\ fYbYb'GhØfa Yf'' K À\ fYbX'X]Y': ]cfYbh]bU'g]WX'U_hi Y```Ui Z D`Uhn'UWX h'XYf'GYf]Y'5 'VYZ]bXYhž'\ Uh'g]WX'X]Y'8 ]g_i gg]cb'XUfØVYfŽ cV'A Ø``Yf']b'X]Y']hU`]Yb]gWXY'@][ U'k YWXgY`b'k ]fXž']bhYbg]j ]Yfh''9]b a <math>O[`]WXYf'K YWXgY`'_ObbhY'Ui WX'VYY]bZi ggYbž'k ]Y'g]WX'X]Y 6UmYfb'Ui Z'XYa 'HfUbgZYfa Uf_h'dcg]h]cb]YfYbž']bgVYgcbXYfY'a ]h ]\ fYa '+bhYfYggY'Ub': `cfYbn!GhØfa Yf'Ac]gY'?YUbž'XYf'Y]bY 5i ggh]Y[ g_`Ui gY''j cb') $'A]``]cbYb'9i fc'\Uh''$ 

±bg[YgUa hik]fX:Yfk UfhYhž:XUgg:X]Y; YgdfÀW.Y:ØVYf:A Ø``Yfg Ni\_i bZhibUW.'XYf:U\_hi Y``Yb:GU]gcb:Ub:: U\fh:Ui ZbY\a Yb:k YfXYb" K À\fYbX:X]Y; YfØW.hY:ØVYf:Y]bYb:a Ò[`]W.Yb:K YW.gY``bUW.  $\pm hU`]Yb``Ui hYf`k YfXYbž`V`Y]Vh`X]Y`: fU[Yž`k]Y`Yb[`X]Y \\ JYf\UbX`i b[Yb`hUhgÀW\`]W\`g]bX`i bX`cV`A Ø``Yf`VYfY]h`]ghž`X]YgYbbAW\ghYb`GW\f]hh`]b`gY]bYf`? Uff]YfY`ni `k U[Yb"$ 

8 YhU]`g	
JcfZU``	FY[]cbU`Yg
Cfh	: `cfYbnž'=hU`]Yb
EiY``Yb	<ul><li>k k k "cd!cb`]bY"XY</li></ul>
	<ul><li>kkk"gdcfh%"XY</li></ul>
	<ul><li>k k k "Zi ggVU``hfUbgZYfg"Wca</li></ul>

6Ygi WXYb G]Y i bg Ui Z b!U[ "XY