

Nj YfYj gʻHfUi aʻk]fXʻ[fY]ZVUf. J]YfhY`Z]bU`g]Y['VY]'XYbʻl GʻCdYb°

5`YI UbXYf`Nj YfYj 'n]Y\h'VY]`XYb`I G`CdYb`]bg`J]YfhY`Z]bU`Y Y]b`i bX`hfÀi a h'j cb`gY]bYa `YfghYb`; fUbX!G`Ua !H]hY``bUW XYa `G]Y['ØVYf`BU_Ug\]a U"

5 YI UbXYf'Nj YfYj '\Uh'VY]a 'dfYgh][YhfÀW\h][Yb'; fUbX!G`Ua! Hi fb]Yf'XYf'I G'CdYb'gY]bY'N]Y`Y']b'[fY]ZVUfY'BÀ\Y'[YfØW_h''BUW\Y]bYa 'ØVYfnYi [YbXYb'5i Zhf]hh']a '5 W\hY`Z]bU`Y'[Y[Yb'XYb UaYf]_Ub]gW\Yb'5i » YbgY]hYf'6fUbXcb'BU_Ug\]a U'_cbbhY'Yf'XYb 9]bni [']bg'J]YfhY`Z]bU`Y'ZY]Yfb''Nj YfYj ž'XYf'c`ma d]gW\Y; c`Xa YXU]``Yb[Yk]bbYf'j cb'&\$&%ž'gYhnhY'g]W\'a]h'' .* ž'* .%ž'* .&ž* .&`Xi fW\"'6Y]'XfØW_YbXYf'<]hnY'i bX'\c\Yf'@ ZhZYi W\h][_Y]h ghY``hY'Yf'gY]bY'a YbhU`Y'GhÀf_Y'i bX'gdcfh`]W\Y'? `UggY'i bhYf 6Yk Y]gž'bUW\XYa 'Yf']a 'YfghYb'GUhn'nY]hk Y]gY'GW\k]Yf][_Y]hYb\UhhY''

8]Y YfghYb 'Gd]Y Y k UfYb 'ZØf'Nj YfYj '\YfUi gZcfXYfbX/Yf'[UV 'XYb YfghYb 'GUhn 'UV 'i bX 'ZUbX 'ni bÀW gh'b]W h']b 'gY]b 'Gd]Y `" 8]Yg ÀbXYfhY 'g]W 'YXc W 'gW bY ``ž'U`g'Yf'gY]bY 'GhfUhY[]Y 'i a ghY ``hY 'i bX ni 'gY]bYa 'U[[fYgg]j Yb 'Gd]Y ``ZUbX"'BUW '&.' * 'Ghi bXYb j Yfk UbXY `hY 'Yf'gY]bYb 'YfghYb 'A UhW VU``i bX 'ZY]YfhY 'b]W h'bi f'XYb G]Y[ž'gcbXYfb 'Ui W 'gY]bYb'() \$" 'G]Y['Ui Z'XYf'5HD!Hci fž'Y]b k]W h][Yf'A Y]`YbghY]b ']b 'gY]bYf'? Uff]YfY"

GW fYWa ca Ybh a j lYfhYb GUhn

Vf]b[Yb" →W 'k Uf'gY\f'XYZYbg]j 'ni '6Y[]bb'XYg'Gd]Y`g" →W 'V]b
gY\f'Zfc\ž'XUgg']W 'k Y]hYf'V]b ž'a Y]bhY'Yf']a '5bgW\`i gg"'GY]b'N]Y`
]gh'_`Uf. '8Yf'YfghY'; fUbX!G`Ua !H]hY`'gc``']b'BYk 'Mcf_'\Yf"'A]h'XYb
VYfY]hg'Ui g[YgWX]YXYbYb'?cb_i ffYbhYb'k]Y'Bcj U_'8'c_cj]Wi bX
7Uf`cg'5`WJfUn'ghY\Yb'X]Y'7\UbW'b']b'XYf'HUh'[Øbgh]["

 $\label{eq:local_problem} Nj\ YfYj\ "]gh" Yhnh" VYfY]h" ZØf" XUg" J\]YfhY" Z]bU" Yž"]b" XYa "Yf" Ui Z" XYb" I G! Dfc Z]" HUm" cf": f]hn" hfY ZZYb" k]fX"" <math>\Rightarrow$ "X]Y gYf" GU]gcb" i bhYf" U["Nj YfYj]\a "VYfY]hg"]a "K]a V"YXcb! 5 Wk hY" Z]bU" Yž" k Ug" X]Y" VYj cfghY\Yb XY 6Y[Y[bi b["i a gc "gd UbbYb XYf" a UWk h": f]hn" _cbbhY" g]Wk "]b" gY]bYa "YhnhYb" A UhWk "[Y[Yb" XYb" Ub" Bi a a Yf" UWk h"[YgYhnhYb" Bcfk Y[Yf 7 Ugd Yf" Fi i X" Xi f Wk gYhnYbž"]b XYa "Yf" U"g" G]Y[Yf" a]h" .* ž"*. (ž"*. ' ž * .&"\Yfj cf[]b[""Nj YfYj "\ Uh"]b" XYf" V]g\Yf][Yb"\]ghcf]gWk Yb" 6]`Ubn [Y[Yb": f]hn" ZØbZ'j cb" bYi b"8 i Y"" Yb" [Yk cbbYbž" YXcWk" V"Y]Vh" Yg gd UbbYb Xž" k]Y" g]Wk" X]Y" VY]XYb"]b" X]Y gYa "YbhgWk Y]XYb XYb" A UhWk gWk" U[Yb" k YfXYb"

8]Y 8 mb Ua]_ X Y g G d]Y `g

a 'Hi fb]Yfj Yf`Ui Z'k Uf`Nj YfYj gʻ5i ZgWk`U[gd]Y``Y]bʻYbhgWkY]XYbXYf : U_hcf"'8Yf'%ž-, 'A YhYf'[fc»Y'Gd]Y`Yf'VY[UbbʻghUf_'i bX Xca]b]YfhYʻgY]bYʻYfghYbʻ5i ZgWk`U[gd]Y`Yž'V]gʻYgʻ]a 'g]YVhYbʻGd]Y` XYgʻYfghYbʻGUhnYgʻni 'Y]bYa 'i bYfk UfhYhYbʻ8cddY`ZY\`Yfʻ_Ua ž'XYf gY]bʻYfghYgʻ6fYU_'ni f': c`[Y`\UhhY"'8]YgʻVfUWkhY`X]Y`[i h [Y`Ui bhYbʻNi gWkUi Yfž'X]Yʻj cfʻU``Ya 'BU_Ug\]a U``Ui hghUf_ i bhYfghØhnhYbž'bcWk 'a Y\f`]bʻGh]a a i b["

BUWW. XYa j Yf`cfYbYb 'YfghYb 'GUhn 'ZUbX'Nj YfYj 'ni 'gY]bYf

[Yk c\bhYb 'GhÀf_Y'ni fØW_"'A]h'ghUf_Yb'; fi bXgWW `À[Yb'i bX
dfÀn]gYb 'DUgg]YfVÀ``Yb 'ghY``hY 'Yf'BU_Ug\]a U'j cf'Yf\YV`]WWY

<YfUi gZcfXYfi b[Yb"'8]Y @Y]ghi b[ž'X]Y Nj YfYj ']a 'nk Y]hYbž'Xf]hhYb
i bX'j]YfhYb 'GUhn'nY][hYž'`]Y» '9f]bbYfi b[Yb'Ub'ZfØ\YfY

Hi fb]YfZcfa Yb'Ui ZYVYb"'GY]bYb'J UhYf'i bX'HfU]bYf'5`YI UbXYf

Nj YfYj 'GYb]cf'i a '<]`ZY'[YVYhYbž'k YWW,gY`hY 'Yf']b'XYf'nk Y]hYb

Fi bXY'gY]bY'GWWi \Yž'k Ug']\a 'bYi Y'9bYf[]Y'j Yf']Y\'i bX'gY]bY

@Y]ghi b['bcWW 'k Y]hYf'ghY][YfhY'"

 $5 g B U_U g \]a \ j] Y f h Y b G U h n b] W h a Y \ f a] h N j Y f Y j g g l h N j Y f Y j g h N j Y f Y j g$

A]h'X]YgYa 'G]Y['\Uh'Nj YfYj 'b]W\h'bi f'gY]bY'7\UbW\b'Ui Z'XYb H]hY`']a 'NYbhfi a 'XYf'gdcfh`]W\Yb'K Y`hghÀXhY'[YghÀf_hž'gcbXYfb Ui W\'[YnY][hž'XUgg'Yf'VYfY]h']ghž'[Y[Yb'YXYb'; Y[bYf'ni _Aa dZYb"'8]Y'_ca a YbXYb'Gd]Y`Y'k YfXYb'ZØf'XYb'XYi hgW\Yb HYbb]gghUf'YbhgW\Y]XYbX'gY]bž'i a 'YbX`]W\'XYb'`Ub[YfgY\bhYb; fUbX!G`Ua!H]hY``ni 'Yff]b[Yb"

8 Y hU]`g

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