

5g`hVWbc`c[mVzbh]bi Yg`hc`a dfcj Yz]hg`UV`]hmhc`dUggij Y`m
UbU nmY`UbX`W`a i b]WtY`k \YfY`]bV]XYbhg`UFY`]_Y`mhcc`cW/f
]g`VYVta]b[`Yj Yb`a cfY`fY` bYXzH_]b[`i g`cbY`ghYd`WcgYf`hc`
dfYX]Mj`Y`gUZ]hmUbX`dfcj]X]b[`i g`a cfY`h]a Y`Zcf`dYfgcb!`hc!
dYfgcb`]bhYfUM]cbg"

H Y X U H J k \Y b ' Z Y X] b h c ' H Y f [\ h X U g V c U F x g ' U b X g n g H a g z
ei] W m i U b X V V U f m d] b d c] b h g ' k \ Y f Y] g g i Y g ' a] [\ h U f] g Y z
U ' c k] b [' Z c b h] b Y ' g d Y f j] g c f g ' h c H U Y ' H Y U M] c b g ' b Y W g g U f m h c
d f y j Y b h] b V V X b h g ' Z c a ' c V V / f f] b ["

hUgc U`ck g`hYUa g`hc gdYbX'a cfY'h]a Y]bhYfUM]b['k]h`YUW
ch`Yf`cb h`Y`cVgjh`zXfj]b['Yb[U[Ya YbhUbX'Wa d`]UbW
hc`Vi]X g`fcb[Yfza cfY'WbbYVWYX'hYUa g`A cfY']bhYfUM]cb
`YUXg`hc`dfcV`Ya !gc`j]b['UbX'WbX]X'Wbj Yfgjh`cbg`hc`Ybgi fY
Yj YfnccbY`ZYY`g`gUZY`UbX`g`YWWfY"

‘t, t, &
‘H Y a cgh YI W h b[‘h] b[‘k Y U F Y g Y] b[‘g]
h Uh Ub k Y W b h] b i Y ‘h c f Y] b Z c f W h Y] a d c f H b W c Z X] [b] h m l b X
f Y g d Y W h Z c f c h Y f g z k c f _Y f g U F Y a c f Y W a Z c f H U V Y H U _] b[‘W c i h
h Y] f c k b a Y b H U \ Y U h \ Ub X d \ n g] W ‘k Y ‘V Y] b[“

K Y'UfY'Ug'g'YY]b['hUh hcf_Yfg'UfY'a cfY'Ug]m'YUW]b['ci h
k]h]b[UbX'Um'cggy'Ua g'hc'Yb[U[Y k]h['chYfg'UbX'_cc_ci h
Zcf'YUW'chYfg'g'UZYh'mCi f'ZcWg'cb'Um'Y'Wf]b['zVfYU]b['Ub
]bWl g]j Y'Ybj]fcba Ybh'UbX'Yb[U[Ya Ybh]g'a U_]b['cVg]hYg'U
VYh'Yf'UbX'g'UZYf'd'UW'h'k cf_"

tt : K Y ' VY] Yj Y ' UXj UbWa Ybhg] b
HVVbc'c[mUbX'h Yf] a d'Ya YbhUh]cb] bhc ci f'cdYfUh]cbg
fY] Yg'cb'h Y'hcc'g'UV]]mhic'XY] j Yf'a YUb]b[Z`ci HWa Yg'hUh
]a dfcj Y'cVg]H'gUZYhmUbX'dfcXi Vbj] hm

: cf'YI Ua d'Yzci f'gJZYhmcVgYfj Uh]cb'hWVbc`c[mdfcj]XYg' W]h]W]`bgj[\hg]bh`^YUX]b[`]bX]Wlhcfj`cZ]bV]XYbh`fYbXg' UbX`\] \!dchYbh]U`cf'bYUfa]gg`Yj Ybhr`hUhWt` X`fYg` `h]b]U ZUh]hmfc`]ZY! U`hYf]b[`]b\`f]Yg"

Ci f'Yh'Ua g'UbX'hfUXY'dUfhbYfg'i gY'U'a cV]Y'Udd'hc'XcW/a Ybh'gJZYhmc'VgYfj Ujhcbgj]b[fYU!h]a Yzk\]W]g'Vtbh]bi U'm'YI dUbX]b['UbX]a dfcj]b['ci f'XUh'Uhfci [\ 'Ufh] W]U'lbhY'`]YbW"

6YWJi gY'ci f'W'h fY'df]cf]h]nYg'h Y'\c']gh]Wk Y`VY]b['cZYj Yfm
l]bXjI]Xj U 'cb'ci f'c'VqjhYazk Y' bck 'hUhUbmj Wwagz ``dZYhm

cVgYfj Uh]cb'd UhZcf a i gh'VY'UW]ta dUb]YX'VmUb'YZZYWij Y'
Wbj YfgUh]cb"K \Yh]Yf'hk Y'cVgYfj Uh]cb'g'fY[Ufx]b['Ub'i bgUZY'
VY'Uj]cf'cf'Um]cb'cf'Yj Yb'Udcgjhj Y'fY]bZcfWa YbhicZgUZY'
Wc]WgZWbj YfgUh]cbg'UfY'j]hj']b Ya dck Yf]b['h]Y'k cf_ZcfW'
hc'hj_Y'Wuf[Y'cZgUZYhm

What is the value of t ?

t : H Y V][[Y g h W U ^ Y b [Y] g [Y H] b [' k c f _ Y g k \ c \ d U g g
H f c i [\ ' c i f ^ c V g] H Y g h c ' f i [' m V Y] j Y Y H Y m \ U j Y H Y d c k Y f h c
g h c d ' k c f _] Z H Y Y m X c ' b c h \ U j Y H Y Y f][\ h Y e i] d a Y b h c f g U Z Y h m
d ' U b] b [d ' U W ' h c ' d Y f Z c f a ' U H J g _ " K Y ' k U b h Y j Y f n c b Y ' U b X ' U b n c b Y '
h c ' g d Y U _ i d ' U b X ' g h c d ' k c f _] Z H Y F Y] g ' U b i b g U Z Y W b X] h] c b z
U M [c b z c f g U Z Y f k U m h c ' d Y f Z c f a ' U H J g _

U\gUZYh\K \Yb \dYcd \Y\h\]b_\cZ]bbcj Uh\cbž

K cfK Y 2 c A f]bb

100

11 of 11

A .. tt. A t..

NUN\UfmD\]`]dg]gUb`YX]hcf`Zcf`7cbghfi W\cb`8]j Y"df]cf`hc`c]b]b[`7cbghfi W\cb`
8]j Y]b`GYdHya VYf`&\$% zNU\Ufmk cf_YX`UgUb`YX]hcf]U`]bhYfb`Zcf`hY`
