

Ukp v/F gpkludqf g



A YHU'bi a a YfXfjY

X\Ua a Uj YX]b4 [a U]"Wca
X\Ua a Uj YX]b"VY

⊕ h'k YY'j c f][Y' UZYj Yf]b[Yb'gM fYYZ]_c j Yf
A YHU' b' Yn'Z]b' d' UUhj Ub' [ccfYn' Z]
A YHU' 6i Uj UbUZYYb' gUd' Y'j YfXf] YfUb[Yb' bUUF[Y' i _'a YfYb'a YfY
Yfj UfYb' U'gj YfUb[Yb' bUUF k Uhj UUF]] gZ
≡ _'fY['XUUF\YY'VY\i 'dnJa Y' fYUW]Yg'cd j Ub' GYj Yb' Yb'j Ub' >c" BU'j YfXfYf
fYZYW]Y' Yb' 'Yi dYf]a Ybh' a YHU' bi a a YfXfjY"

A YHU' b' Yn'Z'cbhXY__Yb'z'cbhXY_ 'XUh'Y'ca 'Yn'Z'[YYZn

⊕ Y'Yb'a YX]hY]!k cf_g'cd]b' DUXa U'c_U'Y[XY' 8\Ufa UX]dU' i]hXUhXY' k Ybg\Yh
[cYX' h' \YVVYb' YFU' b'k Y' \cYj Yb' X]Y' k Ybgb]YhY' d'fcXi W'fYb" GU' Yfj ccf
cdYb/cbhXY_ \Ya "
≡ gM fYYZ
CbhXY_ 'XUh'Y'ca 'Yn'Z'[YYZn' k Y' \YVVYb' Y'Yb' gYf_Y' UUb[YVcfYb' bY][]b['ca' \Yh
k Ufa' h' \YVVYb'z'ca' h' Yh' b'z'ca' VYgM Yfa X' h' k c'fXYb' ""ca']XYb' h' j Yfa]XYb"
8]Y' bY][]b[]_i b' Y' b]YhY[Yb' \ci XYb' U'gk Y' \cb[Yf' \YVVYb'z'Yh' b' k Yz]b' [Yj UUF
j' i W'h' b' k Y' ""
8i gXY' Yf]gY' ZUgY' VYgUUhYf]b' j UghY' gY' Yb' .]_ncf['j ccf'a Yn' Z'X]Y' k]' gYf"
8i gXYn' [Ya cYXg'c YgUbx']gXY' VUg]j ccf'cbn' VYncf[X\Y]X' j ccf'UbXYfYb' . D_
k Y'h' \cY' \Yh]gca' j ccf'a Yn' Z'h' ncf[Yb'z]_k Y'h' \cY' \Yh]gca' d'fcVYa Yb' h'
\YVVYb'N'
>c' k Y'YgYfa Y' cd' XUhX]Y' fYXgUUb'k Yn][Y' k YbgVYgicc_ k Y' \YY' fi]a' _Ub' n]b'z'
; Yf]W'hcd' Y'Yb' [fch'z'X]YdY'z'gM'cbY' h'j fYXYb' \Y]X'z'j ccfV] 'a]b' _Y]bY']"

8Y' k Ybg' \Yh[cYX' h' \YVVYb' . j YfgM]' YbXY' b]j YUi g

K Y' \YVVYb'z'U'gU'Y' Yj YbXY' k Yn'bg'z'Yb' XfUb['hc'hY' ZVY\ci X" N' ZVY\ci X']g
bccXnU_Y]_ . k Y' a cYh' b' Yh' b'z'Xf]b' _Yb' Yb' gUdYb' ca' [YrcbX' h' n]b' "K Y' \YVVYb'
fi g'z'YbYf[]Y'z'ncf[z'W'cb'UWh'z' \i' d' j Ub' Ub' X'YfYb' bcX]["K Y' a cYh' b' [Yj UfYb' Yb'
j]Ub' XYb' ^\Yf_YbbYb' Yb' cbgYfY[Yb' VYgM Yfa Yb' "8UUf'cY' n]b' k Y' i]f[Yfi g'ia Yh
j YfgM]' YbXY' W'udUW]h']h' b"

Di fY']_ [Yf]M h' fYZYI Yb

J ccf'a]b' Y][Yb' c'j YfYj Yb' [f]dYb' bUUF'k UhbcX]['Yb' UUb[YbUUa']g'UZg'c'h' b' Yb'
VYg'f]XYb' k Uhcbg]b' XY' k Y['gUUhYb' cbUUU[YbUUa']g' f] cYXg' z'j ccf'rd' Ub]b[z'
h' f]c' f]i a "L
8Y' Yj c' i]cbU]fY' d'gn'W'c'c' []Y' gM f]z'X]h' c'Y' UUb' cbg'fYd' h' Y' b' V'fY]b"

F K Uhczk]Y' cbg_k UUX' XcYhcZk]' XcYb"

GcWUy fYZIYbj ccf\Yhcj YfYj Ybj Ub'XY'ZJa]Y' cZ[fcYd

NcU'gj Y'Y'X]YfgccfHYb'nb'k Y'gcWUU' .k Y'cj YfYj Yb'Yb'\YVVYb'g WWWgU'g'g'c'f'h
XUb_n]'c'bnY'gJa Ybk Yf_]b['U'g[fcYdZ'XccfY'_UUFHY'\Y'dYb'Yb'VYgMAYfa Yb''6]^
gca a]Y'X]YfgccfHYb[UUhX'h]Yhj YfXfXUb'XY'Y] Yb'eb[Yb''5bXYfY'Yj Yb']b
[fcYdYb'cZ_j XXYgk UUFj]bX]]Xi Yb'\Yhj ccfY'_UUF'cdbYa Yb"

8Y'a Ybg'YYZnU'\cbXYfXi]nYbXYb'\UfYb']b'[Ya YYbgM'UddYb'k UUFV]bbYb
]bX]]Xi Yb'gJa Ybk Yf_Yb'Ybj ccfY'_UUF'ncf[Yb''8UUfbUUghV']ZhYfUb[ghYb
U[fYgg]Y'VYg'UUb'hY[Ybcj Yf'U'X'YfYb'U'f'U'X'Yf'g'U'a a Yb'z'f'U'gg'Yb''''L'6YdUU'XY
BccfX'5a Yf'_UUbgY' bX]UbYb'nci XYb'YXYbj Ub'\i b'Y] Yb'gJa 'Na YbgY']_Y
k YnYbg'fbcYa Yb"

b'XYnY'ca g'U'X]]\YXYb'_Ub'Yf'cc_'k Y'k]YbX\Y]X'Yb'fYgdYWhVYg'UUb'hYb
cj Yfg'U'Ub'j Ub'k YnYbgVi]hYb'XY'Y] Yb'ZJa]Y]Z[fcYd'cZg'Ua "'Cc'_V]f'ccfVYY'X
hY[Ybcj Yf'X]YfYb'z'd'Ub'h'bz'bUhi i fj YfgM']bgY'Yb''f'c'_V]^X]YfgccfHYb'_ca hiri'_Y
fi]a YfY'k UUFXYf]b[zj f]YbXgM'Ud'z'fY'W'hj UUFX]]\Y]Xg' Yj cY'j ccf'k

8Y'\Y'Y'a Ybg\Y]X'Yb'U'Y'Yj YbXY'k YnYbg]b'\Yh\Y'Y'i b] Yfg a

Cb[Yj YfYj]Z'cbXYfX'\UUFj ccf'c'bnY'h'XfY'_Yb]b['cbh'g'c'X'Yb'XY'i b] YfgY'Y'fY']]Yg
Yb'Yj YbgY'YgM'ci k]b[Yb'^a Yh'YYb'U'[Ya YbY'_]^'cd'XY'a YbgY]X'Yb'XY'_cga'cg'
J UbXUU['\ccf'hc'b[Yj Yf'f'U'W'h]]'d'f'c'W'b'hj Ub'XY'k YfY'X'VYj c'_]b['V]'f'f'bj Ub
XYnY' [fch'fY']]Yg'8Y'VcY'_ [cXgX]YbgYb'f'c'XYb'Xca z'W'f'g'Y'Xca z'g'Ua L'Yb'XY
b]Y'h'h'Y'sh'g'W'Y'c'Zdc'm'h'Y'sh'g'W'Y'fY']]Yg'f'V'c'Y'X'X'g'a Yz'\]b'Xc's'a Yz'h'Uc's'a Yz
W'c'b'z'W'U'b'g'a Y'E'V]Y'X'Y'b'j YfgM']Yb'XY'j ccf'gh'Y]b[Yb'j Ub'XY'_cga'cg'XY'a YbgY]X
Yb'k Yf_Y']^_Y]X'UUb''N'g'fYj Yb'W'h'f'U'Y' b'UUFj f]Y]X'z'Y'Yb'\c[Yf'VY'k i g'm]b'z
'Y'Z'Y'z'j fY'XY'Yb'g'c'X'U'f'h'h'

8Y]b'h'fd'fY'U'h]Y'j Ub'XY'\c[Y'd'f]b'W'd'Y'g'Yb'XY'fY']]Yi nY'Yb'a UUh'g'W'UddY']_Y
dfU_h]^_V]bbYb'XYnY' [Y'cc'Zg[Ya YYbgM'UddYb'k Ug'fY'b']g' b'Uhi i f]^_j UU'_j YfY
j Ub'ZUU]f"

8Y'a YHU'V\Uj UbU

b'XYnY'cY'Z'b]b['k]Yb'k Y'YfY'b'k Y'k]YbX\Y]X'hY'U'h'b[fcY]Yb'j ccfU'Y'Yj YbXY
k YnYbg'8\Ua a U_Yh' 'k]ghYf'ghY'X'g'cd'XUh'XYnY'hc'U'Y'cd'Yb'\Y]X'hY[Ybcj Yf
Ub'XYfYb'i]hY]b'XY']^_gJa Ybj U'ha Yhk]g'Y]X.'a Yh'\Y'Y'Y'k YnYb']bn]Yb'XUhYf[YYb
'c'gg'U'Ub'X'z'U'z' Yg'W'Y]X'Yb'_L'hY'VYgdYi fYb'j U'h]b'c'bnY'Yfj Uf]b["'h'a YHU'Yb'k]g'Y]X
n]b'XY'rk YY'_Ub'h'b'j Ub'XYnY'ZXY'a YXU]Y'Z'nY[h'\"]

b'c'bnY'Yfj Uf]b['V]bbYb'Yb'Vi]hYb'XY'a YX]h'U'h]Y'cd'Yb'XY'a YfY'Yb'a]b'XYf'_!
[Yf]M'h'j Yf'Ub[Ybg'X'ccfY'_UUF'Yb'nY'j Yf'Ub'XYfYb'j Ub'a ca Ybh'hc'ha'ca Yb'ha Yh
XY'ca g'U'X]]\YXYb''Nc'_Ub'_L'YYb'Z'Ub[]d'U'bb'Y'_Y'Y'h'b'ca 'hY'd'f'c'V'Y'fY'b'a Yh
nc'Yh]]\Y]X'a]b'Zi g'f'U'h]Y'h'XYa d'Yb''A UUF'_L'_Ub'Yf'cc'_j Ub[]Yb]Y'h'b']b'X]Y'dY
j fYi [XY'Yb'j f]Yb'X'g'W'Ud"

@Jh'b'k Y'Xi g']_Yb'k Y'_Y'a YHU'k Y']b'c'bg'Y'Z'c'bh'XY__Yb.'\Yh'_Ub'YYb
YYbj ci X]]Y'k Ybg'n]b'\Yhk Ufa 'hY'\YVVYb'c'Z'hc'f'i gh'hY'_ca Yb''A UUF'\Yh'_Ub'cc_
YYb'j YY'fi]a YfY'z'bc'VY'Y'k Ybg'n]b"

8Y YYbj ci X]]Y'k Ybg'h'c'h'nY'Z'Y\ci X'Yb'k Y'VYj]b'XYb'j Ub'YnY'ZYb'Ub'XYfYb']g'cd
n]M'nY'Z'cc'_nY'f'k UUFXYj c'' '9Yb']Yi'_]]Ync'b'X'a Ybg']^_k YnYb'n]b]g'XY'V'U'g'g
j ccfj YfX'Y'f'c'bk]_Y']b["'C'a '\Yhi]h'X'U[Yb'X'h'nY[[]Yb.'YYb'[Ync'b'X'Y[c
c'bk]_Y'Yb'ca 'fi gh] UUb'hY'YfYb'c'g'U'h'Yb"

⁶ g]f'ccfVYY'X'XY'j]g]Ygj Ub'XY'; f]Y_g'Y'k]g] YfYb'Yb'U'j Ub'cc'ghY'fY'ncY'_Yfg]b'\Yh]X'dYf_
j Ub'XY'6cYXX\U"

^H 8Y'cd'n]M'bc'VY'Y']bn]M'h'Y'b'k UfYb'V]f'ccfVYY'X'b]Yhj Ub'hc'Yd'Ugg]b['cd'g'Uj Yb/Ub'XYfY
[cXgX]YbgYb'k c'f'XYb'bc['ghY'X'g'cd'j YY'd'Y__Yb'a Yh'XY'k Ud'Ybg'VY'ghY'XYb"