

⇒ a a][fUh]cb
6Ub_



6Ub_!'; YbYfU

8i hW

<]bX]

? Ub_] [YX'UΔUYb']b'OubXQncbXYf'dfcj]gjYg'hY
VYfUYb3

5g_]b['k \Yh'Yf'h'YfY'UFY'Vtā a]gg]cb'ZYygk \Yb'mci 'k]h'XfUk 'a cbYm]b'U'WffU]b'Vtā blfm

K Uhn]'b'XY'dfcj]gjYg'Ug_] [YX'k]'UΔUYb'V]^Yb
[YXU' hca Uhj Ub'Yb'Ub'XYf'VUb_3

5g_]b['ck 'a i W' h'Y'ZYyg'UFY'k \Yb'mci 'k]h'XfUk 'Uih'Y'5HA g'cZ'U'VUb_'X]ZYfYbh'h'Ub'mci fg

6Ub_! 'CdYb]b['U'VUb_ 'UWtā bh

8i hW

<]bX]

=_nci '[fU] [Yb'VUb_fY_Yb]b['cdYbYb"

Gh'f]b['nci f']bh'Ybh]cb'hc'cdYb'U'VUb_'UWtā bh

=_nci '[fU] [a]'b'VUb_fY_Yb]b['gi]hYb"

Gh'f]b['nci f']bh'Ybh]cb'hc'Wcgy'mci f'VUb_'UWtā bh

? Ub_] 'Yb'VUb_fY_Yb]b['cb']bY'cdYbYb3

5g_]b[]Z'nci 'Wb'cdYb'U'VUb_'UWtā bhj]U'Ub'cb']bY'dfc'WXi fY

NU_] 'Yb'VYfU_'U'f'icZYb'_fYX]Yh'U'f'h_f]↑Yb3

5g_]b['k \Uh_]bX'cZ'Wf'X'nci 'k]'' [Yh'k]h'nci f'UWtā bh

? Ub_] 'VUb_]YfYbj]U'a]'b'h'Y'Zccb3

5g_]b[]Z'nci 'Wb'Wf'f'mci h'VUb_]b['dfc'WXi fYg'cb'nci f'd\cbY

K Y_'Y'h'ndYg'VUb_fY_Yb]b[Yb'n]'b'Yf'U'Ub'k Yn][3

5g_]b['k \Uh'h'ndYg'cZ'VUb_'UWtā bhg'UFY'Uj U]U'W'Y

`cdYbXY'fY_Yb]b[

H'ndY'cZ'VUb_'UWtā bh

gd'U'ffY_Yb]b[

H'ndY'cZ'VUb_'UWtā bh

⇒a a][fUh]cb
6Ub_



dYfgccb`]^_Y'fY_Yb]b[
HnrdY'cZVUb_`UWti bh

[YnUa Yb`]^_Y'fY_Yb]b[
HnrdY'cZVUb_`UWti bh

_]bXYffY_Yb]b[
HnrdY'cZVUb_`UWti bh

j fYYa XYj Ui hUY_Yb]b[
HnrdY'cZVUb_`UWti bh

nU_Y`]^_Y'fY_Yb]b[
HnrdY'cZVUb_`UWti bh

gi XYbhYbfY_Yb]b[
HnrdY'cZVUb_`UWti bh

N]`b`Yf`a UUbXY`]^_gY`_cgYb] ccf`XY`VUb_fY_Yb]b[3
5g_]b[`]Z`h`Yf`Y`Uf`Y`a`cb`h`m`Yl`d`Ybg`Yg`h`c`V`Y`d`U`X`Z`c`f`h`Y`U`W`ti`bh

K Uhn]`b`XY`dfcj`]g]Ygj`ccf`]bhYfbUh]cbUY
cj`Yfg`W`f`]`]b[`Yb3
5g_]b[`U`ci`h`V`ta`a`]`gg]`cbg`Z`c`f`]`bh`Y`fb`U`h]`cb`U`h`f`U`bg`Z`Y`fg

⇒g`Yf`Y`Yb`j`Yfn`Y`Yf]b[`]`ccf`]b`[`Yj`U`]`_`a`]`b
VUb`_`U`f`h`j`Yf`]Yg`c`Z`j`ccf`U`g`n`Y`[`Yg`r`c`Y`b`k`c`f`X`h`3
5g_]b[`]Z`h`Yf`Y`]g`]bg`f`U`b`W`]Z`nci`f`W`f`X`]g`c`g`h`c`f`g`r`c`Y`b

? f]f`]`_`Y`b`W`X`Yei`Y`W`c`Y`_`Y`3
5g_]b[`]Z`nci`f`W`W`]j`Y`U`W`X`W`V`cc`_`k`]h`nci`f`U`W`ti`bh

K Uh]g`XY`gd`U`f`f`Y`b`h`Y`3
5g_]b[`Z`c`f`]b`Z`c`f`a`U`h]cb`U`W`ci`h`h`Y`g`U`]`]b[`g`]b`h`Y`f`Y`g`h`f`U`Y

Cd`k`Y`_`Y`a`Ub]YfYb`_i`bhi`a`]^`V`Y`g`W`Y`fa`Y`b`h`Y`[`Y`b
Z`f`U`X`Y`3
5g_]b[`k` \`U`ha`Y`U`g`f`Y`g`h`Y`V`Ub`_`h`U`_`Y`g`]b`W`g`Y`nci`U`f`Y`U`j`]`W`]a`c`Z`U`Z`f`U`X

⇒ a a][fUh]cb

6Ub_

⇒ \YV'a]'b'VUb__Ufhj Yf'cfYb"

Ghuh]b['h.Uhimeci 'cgimeci f'VfYX]hVWfX

A]'b'VUb__Ufhik YfX' [Yghe`Yb"

Ghuh]b['h.Uhimeci f'VfYX]hVWfX'k Uj'ghe`Yb

? Ub]_ 'a]'b'VUb_fY_Yb]b['Vc__YfYb3

5g_]b[]Z'h.Y'VUb_ 'Vb'V'cW_ 'mei f'VUb_ 'UWti bh

⇒ \YV'bccX'Ubb'Yb'j Yfj Ub[_Ufh'

Ghuh]b['h.Uhimeci 'bYX'U'fYd'UW'a YbhVWfX'VWU' gY'mei 'Xcbfii\Uj Y'mei f'WfX'Ubn'a cfY

6Ub_!':]bUbV]U`Yd

8i hW

<]bX]

⇒ 'nci '[fU['k Uh]bZcfa Uh]Y\YVYb'cj Yf`Yb]b[Yb"

5g_]b['Zcf']bZcfa Uh]cb'UWci h`cUbg

K Uh_Ub'i 'a]'j YfhY`Yb'cj Yf'XY'fYbh]j cYb3

5g_]b['Zcf']bZcfa Uh]cb'UWci hi'h.Y]bhYfYghifUHY

⇒ 'nci '[fU['k Uh]bZcfa Uh]Y\YVYb'cj Yf

\moch.Y_Yb"

5g_]b['Zcf']bZcfa Uh]cb'UWci ha cff] U] Yg

⇒ 'nci '[fU['a YhYb'\moch.YY_UX]]gYi f'gdfY_Yb"

5g_]b['he'gdYU_ 'k]h'U'a cff] U] Y'UX]]gcf

⇒ '_ccd'a]'b'YfghY`i]g'

Ghuh]b['h.Uhimeci 'UFY'Vi n]b['mei f'Z]fgh\ca Y

⇒ '_ccd'Yb'hk YXY'Y][YbXca "

Ghuh]b['h.Uhimeci 'UFY'Vi n]b['U'gYVtbX'dfcdYffm

⇒ 'nci '[fU['a]'b'\moch.YY_] Yfb]Yi k Yb"

Ghuh]b['h.Uhimeci 'k ci `X`]_Y'he'fYa cff] U] Y

⇒ 'nci '[fU['a]'b`i]X][Y'\moch.YY_ \Yfn]Yb"

Ghuh]b['h.Uhimeci 'k ci `X`]_Y'he'fYj]Yk 'mei f'a cff] U] Y

⇒a a][fU]cb
6Ub_



=_ccd'Y][YbXca 'ca 'H'cbXYfj YF\i fYb"
GHU]b['h.Uhmcı 'UFY'Vi n]b['U'dfcdYfmcı`"Yh

A]b'Vfi hc'Uuf]b_ca Yb]g"SSSSSS"
GHU]b['\ck 'a i W'ncı f[fcggUbbi U']bWta Y']g

6Ub_! '⇒bg fUbW

8i hW <]bX]
=_ncı '[fU['Yyb] YfnY_Yf]b['Uzgi]Hb"
GHU]b['h.Uhmcı 'UFY']bhFYghYX']b']bg fUbW

]bVcYXY #cdgUj YfnY_Yf]b[
HndY'cZ]bg fUbW

fY]g YfnY_Yf]b[
HndY'cZ]bg fUbW

`Yj Ybg YfnY_Yf]b[
HndY'cZ]bg fUbW

[YncbX\Y]Xgj YfnY_Yf]b[
HndY'cZ]bg fUbW

U hcj YfnY_Yf]b[
HndY'cZ]bg fUbW

\i]gX]YfYbj YfnY_Yf]b[
HndY'cZ]bg fUbW

X]YZgUj YfnY_Yf]b[
HndY'cZ]bg fUbW

\mch\YY_VYgWYfa]b[
HndY'cZ]bg fUbW

gi XYbhYbj YfnY_Yf]b[
HndY'cZ]bg fUbW

⇒ a a][fUh]cb
6Ub_



[fcYdgj YfnY_Yf]b[
HndY'cZ]bgj fUbW

gWUXYj YfnY_Yf]b[
HndY'cZ]bgj fUbW

cj Yfgfca]b[g YfnY_Yf]b[
HndY'cZ]bgj fUbW

VfUbXj YfnY_Yf]b[
HndY'cZ]bgj fUbW

J ccf`cYj YY`a UbXYb`VYb`_ [YXY_hXccf`a]`b
j YfnY_Yf]b[3
5g_]b[`ck`a`a`Ubma`cb`h`g`m`e`i`f`]bgj`fUbW`Vzj`YfU[Y`U`g`g

<cYj YY`_cghXYj YfnY_Yf]b[3
5g_]b[`ck`a`i`W`h`Y`]bgj`fUbW`]g
