

=a a][fUh]cbY
Gh X]UFY



Gh X]UFY! 'I b]j Yfg]h¼

GdU[bc`c

; fYwz

A Y'[i gUfÉU'a Urf]W`Ufa Y`Yb`Ui b]j Yfg]XUX"

8]fY`WXY]j i c]]gW]j Yfh`

"

A Y`ei]Yfc`a Urf]W`Uf`SSSSSSSSSSSSSSSS"

8]fY`WXY]j i c]]gW]j Yfh`UX`i b`Wzfgc`i b]j Yfg]hUf]c

'SSSSSSSSSSSSSSSS"

Yb`i b`[fUXc

H]dc`X]`U`fYU

Yb`i b`dcg] fUXc

H]dc`X]`U`fYU

Yb`i b`XcWcfUXc

H]dc`X]`U`fYU

U]h]Ya dc`Wza d`Yhc

H]dc`X]`U`fYU

U]h]Ya dc`dUfV]U

H]dc`X]`U`fYU

UX]ghU]bV]U

H]dc`X]`U`fYU

A Y'[i gUfÉU`Ygh X]UF`Yb`g`i b]j Yfg]XUX`Xi fUb]Y`i b`
dYf]cXc`XY`SSSSSSSSSSSS"

8]fY`ei Ubhc`Xi fU]`hi c`dYf]cXc`X]`gW]a V]c`

SSSSSSSSSSSS"

i b`gYa YgfY

8 i fU]U`XY`c`gW]a V]c`]b`i bfi]b]j Yfg]h¼U`fYghYfc

i b`Wfgc`UW]XÅa]Wz

8 i fU]U`XY`c`gW]a V]c`]b`i bfi]b]j Yfg]h¼U`fYghYfc

`9I]ghYb`fYgf]W]YcbYg`UWcfU`Yg`dUfU`cg

Ygh X]Ub]Yg3

=bZcfa Ufg]`g`Y`fYgf]n]cb]`U] cfU]j Y`dYf`[]`gh X]Yb]h

/

⇒ a a][fUh]cbY Gh X]UFY



~HYb[c'ei Y'dfYgYbHf`cg'XcW'a Ybhc'cf][]bUYg'c
Yg'g Zi VYbHY V&b'g gZchV&d]Ug3
7\]XYfY'gY'XYj]Zcfb]fY'XcW'a Ybh]'cf][]bU]'c V&d]Y

~7i ½Yg'gcb`cg'fYei]g]hc'gXY'UWVgc'U`U
i b]j Yfg]XUX3
I g]hc'ei UbXc'ZU]'U'Xca UbXUX]'Ua a]gg]cbY'U`fii b]j Yfg]h¼

~A Y'Ybj]UFY'bi bU'WfU'XY'UWdHUM]i b3
8ca UbXUFY'gY'f]W] YfU]'i bU'YHfU'X]'Ua a]gg]cbY

~@U'i b]j Yfg]XUX'dfcdcfV]cbU'Ua V]Åb'Y
Uc'Ua]Ybhc3
8ca UbXUFY'gY'fii b]j Yfg]h¼ [Ufub]gW`fU`c []c

~< UmdfW]W]g'dfcZy]cbUYg'Yb'Y`d'Ub'XY
Ygh X]cg3
8ca UbXUFY'gY']'hi c'V&fgc'i b]j Yfg]h¼]c'dfYj YXY'i b'dYf]cXc'X] ghU] Y

~@cgYgh X]UbHY'XY]bhYfV]a V]c'Ua V]Åb'YbYa cg
ei Y'dU[Uf`U'a Uf&W'U'Yb'g' i b]j Yfg]XUX3
8ca UbXUFY'gY'XYj]'dU[UFY'XY`Y'gdYg'Xf]gW]n]cbY'dYf']'dYf]cXc'X] g]Ua V]c'U`fYghfc

~7I a c'di YXc'V&b'g' huf'Y'Yg'hXc'XY'a]'gc']W]h X3
8ca UbXUFY'V&a Y'di c]'YggYfY'U []cfbUhc#U'g' `dfc[fYggc'XY`U'hi U'Xca UbXUX]'Ua a]gg]cbY

~7i ½Yg'Y' b]j Y'XY'f]X]ca Ue'fYei Yf]Xc3
-bZcfa Ufg]'g]'fYei]g]h`]b [i]gh]W'dYf'YggYfY'Ua a Yggc#U'U`fii b]j Yfg]h¼

~7I a c'Yg'Y'g]ghYa USSSSSSSSSSSS3
-bZcfa Ufg]'g `g]ghYa U'i b]j Yfg]h¼]c

XY'WÅX]hcg
H]dc'X]g]ghYa U

XY'bchUg
H]dc'X]g]ghYa U

⇒ a a][fUh]cbY
Gh X]UfY



~ F YW]fÅ'i bU'Vtd]U'XY'a]'YI dYX]YbhY'UMXÅa]Vt'U
Z]bu'XY'U'Yg]ubV]U3

8ca UbXUfY'gY'Uj fU]i b'Wfh]Z]VWrc'XY[']'Yg]a]'gcgYbi h]'U'U'Z]bY'XY'c'g]Vla V]c'i b]j Yfg]hUf]c

~ E i Å'Yg]`c'XY'YbgY] UbnU'Ud']V]b3

⇒ Zcfa Ufg]'g]'`a YrcXc'Xf]bgY[b]a Ybrc'

~ < UmSSSSSSSSSSSSSS3

'SSSSSSSSSSSS' /

⇒ Zcfa Ufg]'g]'`a YrcXc'Xf]bgY[b]a Ybrc'

VUgYg]hY' f]V]g

H]dc'X]'`Yn]cbY

gYa]bUf]cg

H]dc'X]'`Yn]cbY

h hcf]Ug

H]dc'X]'`Yn]cbY

Vt'bZYfYbV]Ug

H]dc'X]'`Yn]cbY

~ E i Å'Wf]g]g]gY'cZYf]ub'dUfU'U'Yg]WY'U'XY'j Yf]ubc3

⇒ Zcfa Ufg]'g]']Vt'fg]'dfcdcg] XU'Y'Gi a a Yf'GV]cc`

~ 7 i 1/2 Xc'Yg'Y'dYf]cXc'XY'YI 1/2 YbYg3

⇒ Zcfa Ufg]'g]'`Y'XUfY'XY[']'Yg]a]

~ 8 I bXY'di YXc'Vt'bgY[i]f]'bZcfa U]i b'gcVfY'`Ug

Ug][bU] fUg]X]g]dcb]V'Yg3

8ca UbXUfY'Xc] Y'di c] hfc] UfY]'bZcfa Uh]cb]'g] Vt'fg]

~ < Um]bg]U'U]cbYg'XYdcf]h] U]Yb'`U]i b]j Yfg]XUX3

8ca UbXUfY'gY'Vt'Å'i b'Wb]fc'g]dcf]h] c'i b]j Yfg]hUf]c

~ 7 I a c'di YXc'i b]fa Y'U'Ug]UgcV]U]cbYg'XY

Yg]i X]U]b]Yg3

8ca UbXUfY'Vt'a Y'di c]'i b]fh]'U]'V] V'g]i XYbhYg]V]

⇒ a a] [f Uh] cb Y Gh X] U f Y



~ 7i ½ Yg'a ½ g'c'a YbcgY' Vtgh'XY''Uj]XU'Yb
fVj XUXt3
⇒ bZcfa Ufg]g' Vtgh'XY''Uj]U'bY''UVjH4

Gh X] U f Y ! ' 7 cf g j ' X] ~] b [i U

GdU [bc`c ; fVt

~ E i Å] X] ca Ug'g' di YXYb'Ygh X] U f ' Yb'Y' Wbffc3 /
8ca UbXUfY'ei U] ~] b [i Y'j Yb [cbc] bgY [bUfY'bY''U'gWc`U

~ < Umdfi VUg'XY'bj Y'3 /
8ca UbXUfY'gY'Ä'dfYj] g'c' i b'HyghidYf'ghUW]] fY] ~] j Y`c'X] dUfHYbnU

~ A Y'di YXc'Wla V] U f ' XY'WUgY'g] Y' b] j Y'bc'YgY'
UXYV'UXc'dUfU'a É3 /
8ca UbXUfY'gY'di c] 'Wla V] U f Y ~] j Y`c'] b'Wgc'bc'b'gY] 'gcXX] gZUhc#U'X] 'ei Y`c'WY'ghU] Z'fYei YbU'Xc'

~ H] YbYb'XYgV] dV] cbYg'XYfU'`UXUg'XY''Ug /
Ug] [bU' fUg3
8ca UbXUfY'gY'Ä'X] gdc] V] Y'i bU'XYgV] n] cbY'XYfU' [] U'U'XY' Vtfgc

~ 7i ½ Yg'Y' bÖa Yfc'a ½] a c'XY'Ygh X] U b'Hyg'Yb'WUXU
WUgY3 /
8ca UbXUfY'ei U'Ä] 'bi a Yfc'a Ugg] a c'X] gh X] Yb] 'dYf'WUggY

~ E i Å] bgU'W] cbYg'h] YbY'Y' Wbffc3 /
8ca UbXUfY'ei U] 'gfi hi fY'gbc'dfYgYb] 'bY''U'gWc`U

~ C f [Ub] nUb'fUa V] Äb'YI Wfg] cbYg3 /
8ca UbXUfY'gY''U'gWc`U'cf [Ub] nnU'UbWXY'XY''Y'YgWfg] cb]

~ E i Å] dfc [fUa Ug'cZyfU'3 /
8ca UbXUfY'ei U] 'dfc [fUa a] 'gbc'U'X] gdc] n] cbY

Gh X] U f Y ! ' 6 cf g j ' X] gh X] c

GdU [bc`c ; fVt

J Yb [c'U'dYX] f] bZcfa UW] b'gcVfY''Ug'dcg] V]] XUXYg
XY'Z] bUbV] UW] b" "
⇒ bZcfa Ufg] g' Y'dcgg] V]] H4X] Z] bUbn] Ua Ybhc

=a a][fUh]cbY
Gh X]UFY



~ E i Å'cf[Ub]ga cg'di YXYb'Z]bLbV]Uf'a]g'Ygh X]cg3

8 ca UbXUFY'ei U] Ybh]'dcggcbc'Z]bLbn]UFY]'hi c]'gh X]

B YWg]hc'Uhi XU'Z]bLbV]fU'dUFU SSSSSSSSSSSSSSS"

'SSSSSSSSSSSSSS"

8]fY'WXY'\U]'V]gc[bc'X]'U]i hc'Z]bLbn]UF]c

a UfÉV'U

C [[Y]hc'XY'f]i hc'Z]bLbn]UF]c

[U]hcgdYfgcbU'Yg

C [[Y]hc'XY'f]i hc'Z]bLbn]UF]c

a Ubi h'bv]i b'XY'\]^cg'a YbcfYg

C [[Y]hc'XY'f]i hc'Z]bLbn]UF]c

~ E i Å'VWUg'di YXc'gc'V]Uf3

8 ca UbXUFY'ei U]'Vcfgy'X]'gh X]'c'gcbc'X]gdc]V]i]

Gh X]UFY! '7 cbj U]XUFY]h]hc'X]'gh X]c'YgYf]

GdU]bc`c

; fYW

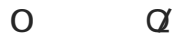
A Y'[i gUfÉU'V]bj U]XUF'a]h'i `c'Yb'f]Uf]g"

8]fY'WXY'j i c]'V]bj U]XUFY]'hi c'Wfh]Z]W]hc'X]'U'fYU'by'dU'Yg'Xcj Y'h]h'fcj]



~ A Y'dcXfÉU'XUF'i bU']gh'U'XY'h'fUXi V]cfYg'f'fUXcgYb

f]X]ca U]3



7\]YXYfY'U']gh'U'XY'h'fUXi h'cf] []i fU]h'by'U'V]a V]bLh]cbY']b[i]gh]W]WXY'h]gYfj Y

~ 8] bXY'di YXc'V]bgY[i]f'i b'Wfh]Z]W]Xc'XY

V]bj U]XU]i b3

8 ca UbXUFY'Xcj Y'di c]'ch'YbYfY'i b'Wfh]Z]W]hc'X]'Yei]j U'YbnU