```
59
5        // ektrmb  kokukbm wbmvf pg dpvstf{bnf gps fbdi \sbefNppl
61       dpvu FF #hsbefNppl7 dsfbufe gps dpvstfB # FF hsbefNppl7.hfuLpvstf{bnf01
62          FF # ohsbefNppl8 dsfbufe gps dpvstfB # FF hsbefNppl8.hfuLpvstf{bnf01
63          FF foemD
64       // foe nbko
```

```
hsbefNppl7 dsfbufe gps dpvstfB La767 jouspevdukpo up L33 'sphsbnnkoh
hsbefNppl8 dsfbufe gps dpvstfB La768 Pbub ausvduvsft ko L33
```

Ik9O9   g u 'u' N   ' y v«yw – |y \sbefNppl wu   u x   ' N |y \sbefNppl
w   w   yw– |y w   y u y |y yuw| \sbefNppl v«yw ' wyu yx/ (ku : –: /)

I i lolo c h s otv ew

Rpulz 58" 5AvnLpn272Aklnpul hjvuz'y–j'vymyjshzz \sbefNppl2Tv'pjl 'oh' 'ol jvuz'y–j1 'vyohz'ol zht l uht l hz p̊z jshzz0\sbefNppl2E jvuz'y–j'vy zwljpplz pu p̊z whyht l'ly spz' 'ol kh'h p̊ ylx–pjlz 'v wlynyt pz 'hzr 2e olu "v– jylh'l hul[vi dj'0"v– wshjl 'opz kh'h pu 'ol whylu'ol zlz'oh' nussv['ol vi dj' uht l ,hz [l kpk pu spulz 8: "8A-2Rpul 58 pukpj h'lz 'oh' jshzz \sbefNppl•z jvuz'y–j'vy ohz h tuskoh whyht l'ly jhsslk obnf2Rpul 58 kvlz uv' zwljpm̊ h yl'–yu '"wl0iljh–zl jvuz'y–j'vyz jhuuv' yl'–yu ; hs–lz ,vyl;lu wpke-2

Rpul 5: pu 'ol jvuz'y–j'vy•z ivk" whzzlz 'ol jvuz'y–j'vy•z whyht l'lyobnf 'v t lt ily muj'pvu tfuLpvstf{bnf ,spulz 64" 67-0[opjo zpr ws" hzzpnuz'ol ; hs–l vmp̊z whyht l'ly'v kh'h t lt ily dpvstf{bnf2gv– t pno' il [vuklypun [o" [l iv'oly t hrpun 'ol jhss 'v tfuLpvstf{bnf pu spul 5: 'ol jvuz'y–j'vy jly'hpus" jv–sk wlynyt 'ol hzzpnut lu' dpvstf{bnf G obnf2 Ǔl alj'pvu 72C0 [l t vkpm̊ tfuLpvstf{bnf 'v wlynyt ; hspkh'pvu ,luz–ypun 'oh'0pu 'opz jhzl0'ol dpvstf{bnf pz 69 vy rh[ly johyhj'lyz pu slun'o-2E' 'oh' wwpu' 'ol ilulmp̊z vmjhsspun tfuLpvstf{bnf nyvt 'ol jvuz'y–j'vy [pss iljvt l jslhy2Fv'o 'ol jvuz'y–j'vy,spul 58- huk 'ol tfuLpvstf{bnf muj'pvu ,spul 64- –zl h whyht l'ly jhsslk obnf2gv– jhu –zl 'ol zht l whyht l'lyuht lz pu kpmhylu' muj'pvuz iljh–zl 'ol whyht l'lyz hyl svjhs'v lhjo muj'pvu 'ol" kv uv' pu'lyrhyl [p̊o vul huv'oly2

itdo h nctt khop GG

Rpulz 87" 97 vmLpn272Aklnpul 'ol nbko muj'pvu 'oh' 'lz'z jshzz \sbefNppl huk klt vu1 z'yh'lz pup̊hspxpun \sbefNppl vi dj'z –zpun h jvuz'y–j'vy2Rpul 8: jylh'lz huk pup̊hspxlz h \sbefNppl vi dj' jhsslk hsbefNppl72e olu 'opz spul l]lj'–'lz0'ol \sbefNppl jvuz'y–j'vy ,spulz 58" 5A- pz jhsslk ,pr wspjp̊s" i " G. . - [po 'ol hyn–t lu' #La767 jouspevdukpo up L33 'sphsbnnkoh# 'v pup̊hspxl hsbefNppl7•z jv–yzl uht l2Rpul 8Aylwlh'z'opz wyvjlzz my 'ol \sbefNppl vi dj' jhsslk hsbefNppl180'pz 'pr l whzzpun 'ol hyn–t lu' #La768 Pbub ausvduvsft ko L33# 'v pup̊hspxl hsbefNppl18•z jv–yzl uht l2Rpulz 94" 95 –zl lhjo vi dj'•z hfuLpvstf{bnf t lt ily muj'pvu 'v vi 'hpu 'ol jv–yzl uht lz huk zov['oh' 'ol " [lyl pu1 kllk pup̊hspxlk [olu 'ol vi dj'z [lyl jylh'lk2bol v–'w–' jvunpyt z 'oh' lhjo \sbefNppl vi dj' t hpu'hpuz p̊z v[u jvw" vmkh'h t lt ily dpvstf{bnf2

s c tw s'l icI ic nvhsotv ew s c hntt

Eu" jvuz'y–j'vy'oh' 'hrlz uv hyn–t lu'z pz jhsslk h klrh–s' jvuz'y–j'vy2E jshzz nl'z h kl1 rh–s' jvuz'y–j'vy pu vul vm̊[v [h"zD

1. b ol jvt wpsl y pt wspj p's" jylh'l z h kl rh–s' jvuz'y–j'vy pu h jshzz 'oh' kvl z uv' kl 1
 mul hjvuz'y–j'vy2a–jo hjvuz'y–j'vy kvl z uv' pup'phsp×l 'ol jshzz×kdh'h m l e i lyz0
i –' kvl z jhss'ol kl rh–s' jvuz'y–j'vy mylhjo kh'h m l e i ly'oh' pz hu vi dj' vmhu1
v'ol yjshzz2Eu –upup'phsp×lk ; hyrhl sl '"wpjhss" jvu'hpuz h nhyi hnl ; hs–12

2. gv– l]wspj p's" kl mul hjvuz'y–j'vy'oh' 'hrl z uv hyn–t lu'z2a–jo hkl rh–s' jvu1
z'y–j'vy [pss jhss'ol kl rh–s' jvuz'y–j'vy mylhjo kh'h m l e i ly'oh' pz hu vi dj' vm
huv'ol yjshzz huk [pss lyrmyt hkkp'punhs pup'phsp×h'pvu zwl jpmpl i " 'v–2

On"v– kl mul hjvuz'y–j'vy +r' hyn–t lu'z0G. . [pss uv' pt wspj p's" jylh'l hkl rh–s' jvu1
z'y–j'vy my'oh' jshzz2Lvyl hjo ; lyzpvu vmjshzz \sbefNpp1 pu Lpn27250Lpn2727 huk Lpn2729
'ol jvt wpsl y pt wspj p's" kl mulk hkl rh–s' jvuz'y–j'vy2

D lo v ihsotv eus us hrctt khop GG 3 y whrctt I lc c

b ol c S R jshzz kphnyht vmLpn272B t vklsz jshzz \sbefNpp1 vmLpn272A0[opjo ohz hjvu1
z'y–j'vy [pjh h obnf whyht l'lyvvm'"wl tuskoh ,yl wpl zl u'lk i " '"wl auskoh pu 'ol c S R-2
Rpr1 vplyh'pvuz0'ol c S R t vklsz jvuz'y–j'vyz pu 'opjk jvt whr't lu' vmh jshzz pu h
jshzz kphnyht 2b v kpz'pun–zo hjvuz'y–j'vy myt hjshzz×vplyh'pvuz0'ol c S Rwshjlz'ol
[vyk jvuz'y–j'vy il'[llu n–plt l'z, huk - ilmyl 'ol jvuz'y–j'v×z uhm l2O×z j–z1
'vt hy" 'v spj' 'ol jshzz×z jvuz'y–j'vy bilmyl v'olyvplyh'pvuz pu 'ol 'opjk jvt whr't lu'2

---

tcgi Br r m
w   y u y Pm ' N
w   w   +e uxyU »(u y Pm ' N)
+ y a   y u y(u y Pm ' N)
+Ny a   y u y( ) Pm ' N)
+x'   u i y uNy( )

Ik9O9   o i hwu x'uNu ' x'wu ' N |u wu \sbefNpp1 |u u w   w   ' | u obnf
u u y y –o i h   y auskoh/

O9 Srcelpk c Crcuu lp c Vi s ctcvi   lri   r t Ti wucdlrlv.

Uul vm'ol i lul mp'z vmjyl h'pun jshzz kl mup'p'punz pz'oh'0[olu whjr hnlk wyvwlys" 0v–y jshzzl z
jhu il yl–zlk i " wyvnyht t lyz w'lu'phss" [vysk[pkl2Lvyl]ht wsl 0[l jhu yl–zl G. .

a'hukhyk Rṗi yhy" '"wḻ tuskoh pu hu" G. . wyvnyht i " pujs–kpun'ol olhkly mṣd FtuskohI
,huk0hz [lᵉss zll0i " i lpun hi sl 'v spur 'v 'ol spi yhy"ᵉz vi ḍj' jvkl -2

   Vyvnyht t lyz [ov [pzo 'v –zl v–y\sbefNpp1 jshzz jhuuv' zpt ws" pujs–kl 'ol mṣd mᶭvt
Lpm272A pu huv'ol y wyvnyht 2Ez "v– slhyulk pu Gohẇ'l y60mᶭuj'pvu nbko i lnpuz 'ol 1]11
j–'pvu vmṭ; l y" wyvnyht 0huk l; l y" wyvnyht t –z' oh; l l]hj's" vul nbko mᶭuj'pvu2Onv'ol y
wyvnyht t lyz pujs–kl 'ol jvkl mᶭvt Lpm272A0 'ol " nl' l]'yh i hnnhnl   v–y nbko mᶭuj1
'pvu   huk 'ol py wyvnyht z [pᶳs 'olu oh; l '[v nbko mᶭuj'pvuz2E"'l t wṗun 'v jvt wᶳsd h
wyvnyht [ṗo '[v nbko mᶭuj'pvuz pu S ṗjyvzvṁd pz–hs G. . wyvk–jl z hu l yyvyz–jo hz

   fssps L86>:B gvodukpo kou nbko0wpke1 bmsfbe ibt b cpe

[olu 'ol jvt wᶳsl y'yḍd z 'v jvt wᶳsl 'ol zljvuk nbko mᶭuj'pvu ṗ l ujv–u'l yz2apᵗ pᶳhys"0'ol
MΓ c G. . jvt wᶳsl y wyvk–jl z 'ol l yyvy

   sfefgkokukpo pg kou nbko01

b ol zl l yyvyz pukṗj h'l 'oh' h wyvnyht   hsyl hk" ohz h nbko mᶭuj'pvu2av0wshj pun nbko pu 'ol
zht l mṣd [ṗo h jshzz kl mᶭuṗpvu wyl; l u'z 'oh' jshzz mᶭvt i lpun yl–zl k i " v'ol y wyvnyht z2
Oṵ'opzzl j'pvu0[l klt vuz'yh'l ov['v t hrl jshzz\sbefNpp1 yl–zhi sl i " zl whyh'pun ṗ pu'v
huv'ol y mṣd mᶭvt 'ol nbko mᶭuj'pvu2

p ic i klṅit

I hjo vṁ'ol wyl; pv–zl]ht wṣl z pu 'ol johẇ'l yj vuzpᶻ'z vṁh zpunsl .drr mṣd 0hszv r uv[u hz h

   tv t uv - v0'oh' jvu'hᵽuz h \sbefNpp1 jshzz kl mᶭuṗpvu huk h nbko mᶭuj'pvu2e olu
i –pᶳkpun hu vi ḍj' l vyṗu'l k G. . wyvnyht 0ṗᵉz j–z'vt hy" 'v kl mᶭul yl–zhi sl zv–yj1 jvkl
,z–jo hz hjshzz- pu h mṣd 'oh' i " jvu; l u'pvu ohz h .i mṣd l uht l l]'l uzpvu   r uv[u hz h **yvru**
v - v2Vyvnyht z–zl (kodmvef wyl wyvjl zzvy kpᶳj'ṗ l z 'v pujs–kl olhkly mṣd z huk 'hrl hk1
; hu'hnl vmṭ yl–zhi sl zvṁ[hyl jvt wulu'z0 z–jo hz '"wḻ tuskoh wyv; ṗklk pu 'ol G. .
a'hukhyk Rṗi yhy" huk –zl y1kl mᶭul k "wḻ z spᵗ l jshzz \sbefNpp12

   U–y ul]' l]ht wsl zl whyh'l'l z 'ol jvkl mᶭvt Lpm272A pu'v '[v mṣd z \sbefNpp1.i
,Lpm272C huk gkh69 76.drr ,Lpm272⊃4-2Ez "v– svvr h' 'ol olhkly mṣd pu Lpm272⊃0uv'ṗ jl
'oh' ṗ jvu'hᵽuz vus" 'ol \sbefNpp1 jshzz kl mᶭuṗpvu ,sṗulz B"7B-0'ol hwwyvvẇph'l olhkly
mṣd z huk h vtkoh kl jshyh'pvu2b ol nbko mᶭuj'pvu 'oh' –zl z jshzz\sbefNpp1 pz kl mᶭul k pu 'ol
zv–yjl l jvkl mṣd gkh69 76.drr ,Lpm272⊃4- pu spᵗ l z B"5B2b v ol sw"v– wyl whyl mᵭy'ol shynl y
wyvnyht z "v–ᵉs l ujv–u'l y sh'l y pu 'opᶻ i vvr huk pu puk–z'y"0[l vṁl u –zl h zl whyh'l'l
zv–yj1 jvkl mṣd jvu'hᵽpun mᶭuj'pvu nbko 'v 'l z' v–yjshzzl z ,'opᶻ pz jhssl k h **u   v**
l r -2gv–ᵉss zvvu slhyu ov[h zv–yj1 jvkl mṣd [ṗo nbko jhu –zl 'ol jshzz kl mᶭuṗpvu
mᵭ–uk pu h olhkly mṣd 'v jyl h'l vi ḍj'z vṁh jshzz2

```
2   // Wkh. 9.AB \sbefNpp1.i
3   // \sbefNpp1 dmbtt efgkokukpo ko b tfrbsbuf gkmf gspn nbko.
4   (kodmvef FkptusfbnI
5   (kodmvef FtuskohI // dmbtt \sbefNpp1 vtft L33 tuboebse tuskoh dmbtt
6   vtkoh obnftrbdf tueD
7
8   // \sbefNpp1 dmbtt efgkokukpo
9   dmbtt \sbefNpp1
```

```
21  rvcmkdB
22      // dpotusvdups kokukbmk ft dpvstf{bnf !kui tuskoh tvrrmkfe bt bshvnfou
23      \sbefNppl0 tuskoh obnf 1
24
25        tfuLpvstf{bnf0 obnf 1D // dbmm tfu gvodukpo up kokukbmk f dpvstf{bnf
26        // foe \sbefNppl dpotusvdups
27
28      // gvodukpo up tfu uif dpvstf obnf
29      wpke tfuLpvstf{bnf0 tuskoh obnf 1
2
31        dpvstf{bnf G obnfD // tupsf uif dpvstf obnf ko uif pc fdu
32        // foe gvodukpo tfuLpvstf{bnf
33
34      // gvodukpo up hfu uif dpvstf obnf
35      tuskoh hfuLpvstf{bnf01
36
37        sfuvso dpvstf{bnfD // sfuvso pc fdu t dpvstf{bnf
38        // foe gvodukpo hfuLpvstf{bnf
39
3       // ektrmb  b !fmdpnf nfttbhf up uif \sbefNppl vtfs
41      wpke ektrmb zfttbhf01
42
43        // dbmm hfuLpvstf{bnf up hfu uif dpvstf{bnf
44        dpvu FF # fmdpnf up uif hsbef cppl gps o# FF hfuLpvstf{bnf01
45           FF #"# FF foemD
46        // foe gvodukpo ektrmb zfttbhf
47  rskwbufB
48      tuskoh dpvstf{bnfD // dpvstf obnf gps uikt \sbefNppl
49   D // foe dmbtt \sbefNppl
```

```
2   // Wkh. 9.76B gkh69 76.drr
3   // jodmvekoh dmbtt \sbefNppl gspn gkmf \sbefNppl.i gps vtf ko nbko.
4   (kodmvef FkptusfbnI
5   (kodmvef #\sbefNppl.i# // kodmvef efgkokukpo pg dmbtt \sbefNppl
6   vtkoh obnftrbdf tueD
7
8   // gvodukpo nbko cfhkot rsphsbn f fdvukpo
9   kou nbko01
21      // dsfbuf u!p \sbefNppl pc fdut
22      \sbefNppl hsbefNppl70 #La767 jouspevdukpo up L33 'sphsbnnkoh# 1D
23      \sbefNppl hsbefNppl80 #La768 Pbub ausvduvsft ko L33# 1D
24
25      // ektrmb  kokukbm wbmvf pg dpvstf{bnf gps fbdi \sbefNppl
26      dpvu FF #hsbefNppl7 dsfbufe gps dpvstfB # FF hsbefNppl7.hfuLpvstf{bnf01
27         FF # ohsbefNppl8 dsfbufe gps dpvstfB # FF hsbefNppl8.hfuLpvstf{bnf01
28         FF foemD
29      // foe nbko
```

```
hsbefNppl7 dsfbufe gps dpvstfB La767 jouspevdukpo up L33 'sphsbnnkoh
hsbefNppl8 dsfbufe gps dpvstfB La768 Pbub ausvduvsft ko L33
```

lk9O9GF   g w x' Nwu \sbefNppl –   –'y \sbefNppl.i –   y ' nbko/ (ku : –: /)

aoen lo c p ic i klni   cvhsowclot c   ti H i loi hnrtt

E ol hkly mpl z–jo hz \sbefNppl.i ,Lpn272G jhuuv' il –zlk 'v ilnpu wyvnyht l]lj–'pvu0 iljh–zl p kvlz uv' jvu'hpu h nbko muj'pvu2On"v– 'y" 'v jvt wpsl huk spur \sbefNppl.i i " pzlsmív jylh'l hu l]lj–'hisl hwwspjh'pvu0S pjyvzvmd pz–hsG. . 644Bwyvk–jlz'ol spur 1 lylyyvyt lzzhnlD

fssps R{y8667B vosftpmwfe f ufsobm t ncpm nbkoLS aubsuvr

b v jvt wpsl huk spur [pžo MT c G. . vu Rpu–]0"v– t –z' npz' pujs–kl 'ol olhklympl pu h .drr zv–yjl jvokl mpsl0'olu MT c G. . wyvk–jlz h spurlylyyvyt lzzhnl jvu'hpupunD

voefgkofe sfgfsfodf up nbko

b opzlyyvy pukpjh'lz 'oh' 'ol spurlyjv–sk uv' svjh'l 'ol wyvnyht •znbko muj'pvu2b v 'lz' jshzz \sbefNppl ,klmpulk pu Lpn272G0"v– t –z' [ypl hzlwhyh'l zv–yjl ljvokl mpsl jvu'hpupun h nbko muj'pvu ,z–jo hz Lpn27254- 'oh' puz'hu'ph'lz huk –zlz vi djz vmiol jshzz2

bol jvt wpslykvlzuv' ruv[[oh' h \sbefNppl pz iljh–zl p•z h–zlylklmpulk '"wl2Qu rhj'0'ol jvt wpslykvlzu• l;lu ruv['ol jshzzlz pu 'ol G. . a'hukhyk Rpi yhy"2b v olswp –uklyz'huk ov['v –zl hjshzz0[l t –z' l]wpjp's" wyv; pkl 'ol jvt wpsly [pžo 'ol jshzz•z klmh puppvu 'oh'•z [o"0 my l]ht wsl0 'v –zl '"wl tuskoh0 h wyvnyht t –z' pujs–kl 'ol FtuskohI olhklympl2b opzl uhi slz 'ol jvt wpsly'v kl'lyt pul 'ol ht v–u' vml lt vy" 'oh' p t –z' ylzly;l my lhjo vi djy vm'ol jshzz huk luz–yl 'oh' h wyvnyht jhssl 'ol jshzz•z t lt ilymuj'pvuzjvyylj's"2

b v jylh'l \sbefNppl vi djz hsbefNppl7 huk hsbefNppl8 pu spulz 55"56 vmLpn27254 0 'ol jvt wsly t –z' ruv['ol zpsl vmh \sbefNppl vi djy'2e opsl vi djz jvunlw–hss" jvu1 'hpu kh'h t lt ilyz huk t lt ilymuj'pvuz0G. . vi djz jvu'hpu vus" kh'h2bol jvt wpsly jylh'lz vus" *vuo jvt w" vm'ol jshzz•z t lt ilymuj'pvuz huk z lyoz'oh' jvv" ht vun hss 'ol jshzz•z vi djz2I hjo vi djz'0vmjv–yzl0ullkz p z v[u jvw" vm'ol jshzz•z kh'h t lt ilyz0 iljh–zl 'olpy jvu'lu'z jhu ;hy" ht vun vi djz,z–jo hz '[v kpmhylu' NbolMddpvou vi djz oh;pun '[v kpmhylu' cbmbodf kh'ht lt ilyz-2b ol t lt ilylmuj'pvu jvkl0ov[l;ly0pz uv' t vkpmphisl0zv p jhu il zohylk ht vun hss vi djz vm'ol jshzz2b olylmyl0'ol zpsl vmhu vi djy klwlukz vu 'ol ht v–u' vml lt vy" ylx–pl k 'v z'vyl 'ol jshzz•z kh'h t lt ilyz2F" pujs–kpun \sbefNppl.i pu spul 80[l np l 'ol jvt wpsly hjjlzz 'v 'ol pumyt h'pvu p ullkz ,Lpn27200spul 7A- 'v kl'lyt pul 'ol zpsl vmh \sbefNppl vi djy huk 'v kl'lyt pul [ol'oly vi djz vm'ol jshzz hyl –zlk jvyylj's" ,pu spulz 55"56 huk 59"5: vmLpn27254-2

Rpul 8 puz'y–j'z 'ol G. . wyl wyvjlzzvy 'v ylwshjl 'ol kpylj'p l [pžo hjvw• vm'ol jvu1 'lu'z vm\sbefNppl.i ,p120'ol \sbefNppl jshzz klmpup pvu- o vyo'ol wyvnyht pz jvt wslk2 e olu 'ol zv–yjljvokl mpsl gkh69 76.drr pz jvt wslk0p uv[jvu'hpuz 'ol \sbefNppl jshzz klmpup pvu ,iljh–zl vm'ol (kodmvef-0huk 'ol jvt wpsly pz hisl 'v kl'lyt pul ov['v jylh'l \sbefNppl vi djz huk zll 'oh' 'ol pyt lt ilymuj'pvuz hyl jhssl jvyylj's"2T v['oh' 'ol jshzz klmpup pvu pz pu h olhklympl ,[pžov–' h nbko muj'pvu-0[l jhu pujs–kl 'oh' olhklympl lu. wyvnyht 'oh' ullkz 'v yl –zl v–y \sbefNppl jshzz2

p s p ic i klnt D i usecui

Tv'pjl 'oh' 'ol uht l vm̈ol \sbefNppl.i olhklympsl pu spul 8 vmLpn27254 pz lujsvzlk pu x—v'lz,# #- yh'oly'ohu hunsl i yhjr l'z,F I-2T vyt hss"0h wyvnyht •z sv—yjl ljvkl mpslz huk —zly1klmpulk olhklympslz hyl wshjlk pu 'ol zht l kpylj'vy"2e olu 'ol wylwyvjlzzvylujv—u1 'lyz h olhklympsl uht l pu x—v'lz0p̈ h''lt w'z'v svjh'l 'ol olhklympsl pu 'ol zht l kpylj'vy" hz 'ol mpsl pu [opjo 'ol (kodmvef kpylj'p'pl hwwlhyz2On'ol wylwyvjlzzvy jhuuv' mpuk 'ol olhklympsl pu 'oh' kpylj'vy"0p̈ zlhyjolz myp̈ pu 'ol zht l svjh'pvu,z- hz 'ol G.. a'hukhyk Rpi yhy" olhklympslz2e olu 'ol wylwyvjlzzvylujv—u'lyz h olhklympsl uht l pu hunsl i yhjr l l'z,12h20Fkptusfbn I-0p̈ hzz—t lz'oh' 'ol olhklypz why' vm̈ol G.. a'hukhyk Rpi yhy" huk kvlz uv' svvr pu 'ol kpylj'vy" vm̈ol wyvnyht 'oh' pz i lpun wylwyvjlzzlk2

ttr t8Sti yi pvlr p Ws O9O

i v ouz(yo' l' ' o uyouyv ozzvy lu tv l'o olnoy rtoz vyyo 't.,.i   e uyouyv ozzvy nr-yo' 'r)oz z v(tn utl o ' o ul oz v (zoy-no ruon olnoy rtoz ru (v'oz bojpj, - ra el oo n -c lun utl o ' o ul oz v hh g'lunlyn Tr yly. olnoy rtoz ru lupto yl s o'z bojpj, <iostream>cj

D lulsocn s v c i jo loii lo att it

Tv['oh' jshzz \sbefNppl pz klmpulk pu h olhklympsl 0'ol jshzz pz yl—zhi sl 2c unvy'—uh'ls"0 wshjpun h jshzz klmpup̈pvu pu h olhklympsl hz pu Lpn272Cz'pss yl;lhsz 'ol lu'pyl pt wslt lu'h1 'pvu vm̈ol jshzz 'v 'ol jshzz•z jsplu'z \sbefNppl.i pz zpt ws" h'l]' mpsl 'oh' hu"vul jhu vwlu huk ylhk2Gvu;lu'pvuhs zvm̈ hyl lunpul lypun [pzkvt zh"z'oh' 'v —zl hu vi dj'vmh jshzz0'ol jsplu' jvkl ullkz'v ruv[vus" [oh't lt i lyz—uj'pvuz'v jhss0[oh' hyn—t lu'z 'v wyv;pkl 'v lhjo t lt i lyz—uj'pvu huk [oh' yl—yu '"wl'v l]wlj' myvt lhjo t lt i ly m—uj'pvu2b ol jsplu' jvkl kvlz uv' ullk 'v ruv[ov['ovzl m—uj'pvuz hyl pt wslt lu'lk2

Gh jsplu' jvkl *nvoz r uv[ov[h jshzz pz pt wslt lu'lk0'ol jsplu' ljvkl wyvnyht t lyz t pno' [ypl jsplu' jvkl i hzlk vu 'ol jshzz•z pt wslt lu'h'pvu kl'hpsz2Qlhss"0pm̈oh' pt wsl1 t lu'h'pvu johunlz0'ol jshzz•jsplu'z zov—sk uv' oh;l v johunl2Npkpun 'ol jshzz•z pt wsl1 t lu'h'pvu kl'hpsz t hrlz p̈ lhzply'v johunl 'ol jshzz•z pt wslt lu'h'pvu [opsl t pupt pxpun0 huk ovwlm—ss" lspt puh'pun0johunlz'v jsplu' jvkl 2

Qu alj'pvu 72B0[l zov[ov['v i ylhr —w'ol \sbefNppl jshzz pu'v '[v mpslz zv 'oh'

1. 'ol jshzz pz yl—zhi sl 0

2. 'ol jsplu'z vm̈ol jshzz ruv[[oh't lt i lyz—uj'pvuz 'ol jshzz wyv; pklz0ov['v jhss'olt huk [oh' yl'—yu '"wlz'v l]wlj'0huk

3. 'ol jsplu'z kv uv' ruv[ov['ol jshzz•t lt i lyz—uj'pvuz hyl pt wslt lu'lk2

O9 Vi s ctcvlpk pvit cei tro o srioi pvcvlr p

Qu 'ol wyljlkpun zlj'pvu0[l zov[lk ov['v wyvt v'l zvm̈ hyl yl—zhi pspp" i " zlwhyh'pun h jshzz klmpup̈pvu myvt 'ol jsplu' jvkl ,l2h20m—uj'pvu nbko- 'oh' —zlz 'ol jshzz2e l uv[pu1 'yvk—jl huv'oly mukht lu'hs wypujpwsl vmnvvk zvm̈ hyl lunpul lypun   v r r l v -rtv-   v v r   2

aovi cei s c hrctt

f v -rtv klmpul huk z'hukhykpzl 'ol [h"z pu [opjo 'opunz z—jo hz wlvwsl huk z"z'lt z pu1 'lyhj' [p̈o vul huv'oly2Lvyl]ht wsl0h yhkpv•z jvu'yvsz zly;l hz hu pu'lymhjl i l'[llu 'ol

yhkpv•z –zlyz huk p'z pu'lyuhs jvt wvulu'z2b ol jvu'yvsz hssv[–zlyz 'v wlymvyt h spt p'lk zl' vmvwlyh'pvuz ,z–jo hz johunpun 'ol z'h'pvu0hkq–z'pun 'ol ;vs–t l0huk jovvzpun il1 '[llu ES huk LS z'h'pvuz-2d hypv–z yhkpvz t h" pt wslt lu' 'olzl vwlyh'pvuz kpmmlylu'1 s" zvt l wyv;pkl w–zo i–''vuz0zvt l wyv;pkl kphsz huk zvt l z–wwvy' ;vpjl jvt t hukz2 b ol pu'lymhjl zwljpmpl z + *l'* vwlyh'pvuz hyhkpv wlyt p'z–zlyz 'v wlymvyt i–' kvlzuv' zwlj1 pm" *v+* 'ol vwlyh'pvuz hyl pt wslt lu'lk puzpkl 'ol yhkpv2

apt pshys"0'ol **v -rtv -r t r** klzjypil z + *l'* zly;pjlz h jshzz•z jsplu'z jhu –zl huk ov['v *yo (oz'*'ovzl zly;pjlz0i–' uv' *v+* 'ol jshzz jhyypl z v–''ol zly;pjlz2E jshzz•z rvcmkd pu'lymhjl jvuzpz'z vm'ol jshzz•z rvcmkd t lt ily m–uj'pvuz ,hszv ruv[u hz 'ol jshzz•z **srh v tv** -2 Lvy l] ht wsl0 jshzz \sbefNppl•z pu'lymhjl ,Lpn272G- jvu'hpuz h jvuz'y–j'vy huk t lt ily m–uj'pvuz tfuLpvstf{bnf0 hfuLpvstf{bnf huk ektrmb zfttbhf2 \sbefNppl•z jsplu'z ,l2h20 nbko pu Lpn27254- –zl 'olzl m–uj'pvuz 'v ylx–lz' 'ol jshzz•z zly;pjlz2E z "v–•ss zvvu zll0 "v– jhu zwljpm" h jshzz•z pu'lymhjl i " [yp'pun h jshzz klmpup'pvu 'oh' spz'z vus" 'ol t lt ily1m–uj'pvu uht lz0yl'–yu '"wlz huk whyht l'ly'"wlz2

i c culo v i aovi cei s v i a ri iowulso

Ou v–y wypvy l]ht wslz0lhjo jshzz klmpup'pvu jvu'hpulk 'ol jvt wsl'l klmpup'pvuz vm'ol jshzz•z rvcmkd t lt ily m–uj'pvuz huk 'ol kljshyh'pvuz vm'p'z rskwbuf kh'h t lt ilyz2Nv[1 l;ly0p'•z i l''ly zvm[hyl lunpullypun 'v klmpul t lt ily m–uj'pvuz *v('zrno* 'ol jshzz klmpupl 'pvu0zv 'oh' 'olpy pt wslt lu'h'pvu kl'hpsz jhu i l opkklu myvt 'ol jsplu' jvkl2b opz wyhj'pjl *ouz(yoz'*oh' "v– kv uv' [yp'l jsplu' jvkl 'oh' klwlukz vu 'ol jshzz•z pt wslt lu'h'pvu kl1 'hpsz2 Oh"v– [lyl 'v kv zv0'ol jsplu' jvkl [v–sk il t vyl spr ls" 'v iylhr pm'ol jshzz•z pt wslt lu'h'pvu johunlk2

b ol wyvnyht vmLpn27255"7257 zlwhyh'lz jshzz \sbefNppl•z pu'lymhjl myvt p'z pt wsl1 t lu'h'pvu i" zwsp''pun 'ol jshzz klmpup'pvu vmLpn272Cpu'v'[v mpslz 'ol olhkly mpsl \sbef5 Nppl.i ,Lpn27255- pu [opjo jshzz \sbefNppl pz klmpulk0 huk 'ol zv–yjl1jvkl mpsl \sbefNppl.drr ,Lpn27256- pu [opjo \sbefNppl•z t lt ily m–uj'pvuz hyl klmpulk2F" jvu1 ;lu'pvu0t lt ily1m–uj'pvu klmpup'pvuz hyl wshjlk pu h zv–yjl1jvkl mpsl vm'ol zht l ihzl uht l ,l2h20\sbefNppl- hz 'ol jshzz•z olhkly mpsl i–' [p'o h .drr mpsluht l l]'luzpvu2b ol zv–yjl1jvkl mpsl gkh69 79.drr ,Lpn27257- klmpulz m–uj'pvu nbko ,'ol jsplu' jvkl-2b ol jvkl huk v–'w–' vmLpn27257 hyl pklu'pjhs 'v 'oh' vmLpn272542Lpn–yl 7258 zov[z ov['opz 'oyll1mpsl wyvnyht pz jvt wplk myvt 'ol wlyzwlj'p;l z vm'ol \sbefNppl jshzz wyvnyht t ly huk 'ol jsplu'1jvkl wyvnyht t ly [l•ss l] wshpu 'opz mpn–yl pu kl'hps2

khop GG asbI i lolo c hrctt3aovi cei lv k oeulso susv it

Nl hkly mpsl \sbefNppl.i ,Lpn27255- jvu'hpuz huv'oly ;lyzpvu vm\sbefNppl•z jshzz klmpupl 'pvu ,spulz C"5B-2b opz ;lyzpvu pz zpt pshy 'v 'ol vul pu Lpn272C0i–''ol m–uj'pvu klmpup'pvuz pu Lpn272C hyl ylwshjlk olyl [p'o **- t v** ,spulz 56"59- 'oh' klzjypil 'ol jshzz•z rvcmkd pu'lymhjl [p'ov–' yl;lhspun 'ol jshzz•z t lt ily1m–uj'pvu pt wslt lu'h'pvuz2E m–uj'pvu wyv'v'"wl pz h kljshyh'pvu vmh m–uj'pvu 'oh' 'lssz 'ol jvt wpsly 'ol m–uj'pvu•z uht l0p'z yl'–yu '"wl huk 'ol '"wlz vm'p'z whyht l'lyz2Eszv0'ol olhkly mpsl z'pss zwljpmplz 'ol jshzz•z rskwbuf kh'h t lt ily ,spul 5A- hz [lss2Enhpu0'ol jvt wpsly t –z' ruv['ol kh'h t lt ilyz vm'ol jshzz 'v kl'lyt pul ov[t –jo t lt vy" 'v ylzly;l mvy lhjo vi qlj' vm'ol jshzz2Ouj s–kpun 'ol olhkly mpsl \sbefNppl.i pu 'ol jsplu' jvkl ,spul 9 vmLpn27257- wyv1 ;pklz 'ol jvt wpsly [p'o 'ol pumvyt h'pvu p' ullkz 'v luz–yl 'oh' 'ol jsplu' jvkl jhssz 'ol t lt ily m–uj'pvuz vmjshzz \sbefNppl jvyylj's"2

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2   // Wkh. 9.77B \sbefNppl.i
3   // \sbefNppl dmbtt efgkokukpo.  ikt gkmf rsftfout \sbefNppl t rvcmkd
4   // koufsgbdf !kuipvu sfwfbmkoh uif knrmfnfoubukpot pg \sbefNppl t nfncfs
5   // gvodukpot4 !ikdi bsf efgkofe ko \sbefNppl.drr.
6   (kodmvef FtuskohI // dmbtt \sbefNppl vtft L33 tuboebse tuskoh dmbtt
7   vtkoh obnftrbdf tueD
8
9   // \sbefNppl dmbtt efgkokukpo
    dmbtt \sbefNppl
21
22  rvcmkdB
23      \sbefNppl0 tuskoh 1D // dpotusvdups uibu kokukbmk ft dpvstf{bnf
24      wpke tfuLpvstf{bnf0 tuskoh 1D // gvodukpo uibu tfut uif dpvstf obnf
25      tuskoh hfuLpvstf{bnf01D // gvodukpo uibu hfut uif dpvstf obnf
26      wpke ektrmb zfttbhf01D // gvodukpo uibu ektrmb t b !fmdpnf nfttbhf
27  rskwbufB
28      tuskoh dpvstf{bnfD // dpvstf obnf gps uikt \sbefNppl
29   D // foe dmbtt \sbefNppl
```

Ik9 O9GG   \sbefNppl wu xy—' ' ' w u' ' N— w'   y |u   yw— |y' y —uwy
— |y wu /

b ol muj'pvu wyv'v'"wl pu spul 56 ,Lpn27255- pukpj h'lz'oh' 'ol jvuz'y—j'vy ylx—pjlz
vul tuskoh whyht l'ly2Yljhss'oh' jvuz'y—j'vyzkv uv' oh;l yl'—yu '"wl z0zv uv yl'—yu '"wl
hwwd hyz pu 'ol muj'pvu wyv'v'"wl 2S lt i ly muj'pvu tfuLpvstf{bnf•z muj'pvu wyv'v'"wl
pukpj h'lz 'oh' tfuLpvstf{bnf ylx—pjlz h tuskoh whyht l'ly huk kvlz uv' yl'—yu h ; hs—l
,pl 20 pz yl'—yu '"wl pz wpke-2S lt i ly muj'pvu hfuLpvstf{bnf•z muj'pvu wyv'v'"wl pukpl
jh'lz'oh' 'ol muj'pvu kvlz uv' ylx—pl whyht l'lyz huk yl'—yuz h tuskoh2Lpuhss"0t lt i ly
muj'pvu ektrmb zfttbhf•z muj'pvu wyv'v'"wl ,spul 59- zvl jppdl z 'oh' ektrmb zfttbhf
kvlz uv' ylx—pl whyht l'lyz huk kvlz uv' yl'—yu h; hs—l2b ol zl muj'pvu wyv'v'"wl zhyl 'ol
zht l hz'ol jvyylzwwukpun muj'pvu olhklyz pu Lpn272O0l]jlw' 'oh' 'ol whyht l'ly uht lz
,[otjo hyl vw'pvuhs pu wyv'v'"wlz- hyl uv' pujs—klk huk lhjo muj'pvu wyv'v'"wl t —z' luk
[po h zl t pjvsvu2

Cr o o r p Str ktco o lpk ttr t O9
vypo''rup' o z0 r vtvu l'' o oun v l (u 'rvu uyv'v'.uo rzl z u'l oyyvyj

r r g Str ktco o lpk Stcevlei O9
*t' v(p ul yl o'oy ul oz ru (u 'rvu uyv'v'.uoz l yo vw'rvul t b' o. yo rpuvyon . ' o
v urtoyc, l u. uyvpyl   oyz(zo ' ozo ul oz vy nv (ou'l 'rvu u(yuvzozj*

ttr t8Sti yi pvlr p Ws O9U
*dl yl o'oy ul ozru l (u 'rvu uyv'v'.uo b+ r , lpl ru, lyo rpuvyon . ' o v urtoyc l u
 o rztol nrup r ' o ul oz(zon nv uv' l' ' vzo (zon ru ' o (u 'rvu no rur'rvuj vy
' rzyol zvu, l u. uyvpyl   oyz yol'o (u 'rvu uyv'v'.uoz . vu rup' o ryz' truo v ' o
vyyozuvunrup (u 'rvu no rur'rvuz b+ ou' o zv(y o vno vy ' o (u 'ruz rzl)l rtl toc,
' ou l uwounrup l zo r vtvu 'v' o oun v ol uyv'v'.uoj*

khop GG amNNbI i lolo y i   i k oedsotlo c i c cui s   eiHhs i klni

av—yjl ljvkl nµsl \sbefNppl.drr ,Lpn27256- *no ruoz* jshzz \sbefNppl•z t lt i ly µuj'pvuz0
[opjo [lyl *no tl yon* pu spulz 56"59 vmLpn272552b ol kl nµuṕpvuz hwwl hy pu spulz C"76 huk
hyl ul hys" ṕklu'ṕjhs'v 'ol t lt i lyl µuj'pvu klnµuṕpvuz pu spulz 56"79 vmLpn272C2

```
2    // Wkh. 9.78B \sbefNppl.drr
3    // \sbefNppl nfncfs5gvodukpo efgkokukpot.  ikt gkmf dpoubkot
4    // knrmfnfoubukpot pg uif nfncfs gvodukpot rspupu rfe ko \sbefNppl.i.
5    (kodmvef FkptusfbnI
6    (kodmvef #\sbefNppl.i# // kodmvef efgkokukpo pg dmbtt \sbefNppl
7    vtkoh obnftrbdf tueD
8
9    // dpotusvdups kokukbmk ft dpvstf{bnf !kui tuskoh tvrrmkfe bt bshvnfou
     \sbefNpplBB\sbefNppl0 tuskoh obnf 1
21
22      tfuLpvstf{bnf0 obnf 1D // dbmm tfu gvodukpo up kokukbmk f dpvstf{bnf
23    // foe \sbefNppl dpotusvdups
24
25   // gvodukpo up tfu uif dpvstf obnf
26   wpke \sbefNpplBBtfuLpvstf{bnf0 tuskoh obnf 1
27
28      dpvstf{bnf G obnfD // tupsf uif dpvstf obnf ko uif pc fdu
29    // foe gvodukpo tfuLpvstf{bnf
2
31   // gvodukpo up hfu uif dpvstf obnf
32   tuskoh \sbefNpplBBhfuLpvstf{bnf01
33
34      sfuvso dpvstf{bnfD // sfuvso pc fdu t dpvstf{bnf
35    // foe gvodukpo hfuLpvstf{bnf
36
37   // ektrmb  b !fmdpnf nfttbhf up uif \sbefNppl vtfs
38   wpke \sbefNpplBBektrmb zfttbhf01
39
3      // dbmm hfuLpvstf{bnf up hfu uif dpvstf{bnf
41     dpvu FF # fmdpnf up uif hsbef cppl gps o# FF hfuLpvstf{bnf01
42        FF #"# FF foemD
43    // foe gvodukpo ektrmb zfttbhf
```

Ik9 O9GI   \sbefNppl y vy.– w' xy–' ''   y y y |y'   y y u'   –wu
\sbefNppl/

Tv'ṕjl 'oh' lhjo t lt i lyl µuj'pvu uht l pu 'ol µuj'pvu olhklyz ,spulz C059065 huk
6A- pz wyljlklk i "'ol jshzz uht l huk BB0[opjo pz ruv[u hz 'ol **s   r   t v v**
v r   2b opz 'ṕdz lhjo t lt i ly µuj'pvu 'v 'ol ,uv[zl whyh'l- \sbefNppl jshzz klnµuṕpvu
,Lpn27255-0 [opjo kljshylz 'ol jshzz•z t lt i ly µuj'pvuz huk kh'h t lt i lyz2 e ṕov–'
 \sbefNpplBB wyljlkpun lhjo µuj'pvu uht 10'olzl µuj'pvuz [v–sk uv' il yljvnuṕdlk i "
'ol jvt wṕsl yhz t lt i ly µuj'pvuz vmjshzz \sbefNppl   'ol jvt wṕsl [v–sk jvuzṕkly 'olt
 nṕll vy svvzl µuj'pvuz0 sprl nbko2b olzl hyl hszv jhsslk nsvi hs µuj'pvuz2a–jo µuj'pvu
jhuuv' hjjlzz \sbefNppl•z rskwbuf kh'h vyjhss 'ol jshzz•z t lt i ly µuj'pvuz0[ṕov–' zwlj1
mṕṕpun hu vi dj '2 av0 'ol jvt wṕsly [v–sk uv' il hisl 'v jvt wṕsl 'olzl µuj'pvuz2 Lvy
l]ht wsl0 spulz 5A huk 67 'oh' hjjlzz ; hyṕhi sl dpvstf{bnf [v–sk jh–zl jvt wṕh'pvu lyyvyz

i l j h–zl dpvstf{bnf p̲z uv' kl jshylk hz hsvjhs; hyphi sl p̲ulhjo ᵯuj'pvu   'ol jvt wp̲sl y[v–sk
uv' ruv['oh' dpvstf{bnf p̲zhsylhk" kljshylk hz hkh'h t lt i l y vᵯjshzz \sbefNppl2

Cr o o r p Str ktco o lpk   ttr t O9

*ou no rurup l tl zz̲Y̲. o   oy (u 'rvuzv('zrno' l' tl zz̲ v r''rup' o tl zzul   o l un r–
ul y. z vuo yozvt('rvu vuoyl 'vy l̲BBc uyo onrup' o (u 'rvu ul   oz l (z̲oz v   urtl 'rvu oyyvyzj*

b v p̲ukp̲j h'l 'oh' 'ol t lt i l yᵯuj'pvuzp̲u \sbefNppl.drr hyl why' vᵯjshzz \sbefNppl0
[l t –z' np̲z'p̲ujs–kl 'ol \sbefNppl.i olhklyᵯpl ,sp̲ul 9 vᵯLp̲n272S6-2b op̲z hssv[z –z'v
hjjlzz 'ol jshzz uht l \sbefNppl p̲u 'ol \sbefNppl.drr np̲l 2e olu jvt wp̲sp̲un \sbef5
Nppl.drr0'ol jvt wp̲sl y–zl z 'ol p̲uᵯyt h'pvu p̲u \sbefNppl.i 'v luz–yl 'oh'

1. 'ol np̲z' sp̲ul vᵯlhjo t lt i l yᵯuj'pvu ,sp̲ulz C059065 huk 6A- t h'jolz p̲z wyv'v1
   '"wl p̲u 'ol \sbefNppl.i np̲l   ᵯyl]ht wsl0'ol jvt wp̲slyluz–ylz'oh' hfuLpvstf5
   {bnf hjjlw'z uv whyht l'lyz huk yl'–yuz h tuskoh0huk 'oh'

2. l hjo t lt i l yᵯuj'pvu ruv[z hi v–' 'ol jshzz•kh'h t lt i l yz huk v'olyt lt i l y
   ᵯuj'pvuz   ᵯyl]ht wsl0sp̲ulz 5A huk 67 jhu hjjlzz ; hyphi sl dpvstf{bnf i l j h–zl
   p̲•z kljshylk p̲u \sbefNppl.i hz h kh'h t lt i l y vᵯjshzz \sbefNppl0huk sp̲ulz 55
   huk 74 jhu jhss ᵯuj'pvuz tfuLpvstf{bnf huk hfuLpvstf{bnf0ylzwlj'p̲ls"0i l l 1
   j h–zl l hjo p̲z kljshylk hz h t lt i l y vᵯ̲ol jshzz p̲u \sbefNppl.i ,huk i l l 1
   jh–zl 'olzl jhssz jvuᵯyt [p̲o 'ol jvyyl zwukp̲un wyv'v'"wl z-2

itdo h nr tt   khop GG

Lp̲n–yl 7.2S7 wl yᵯyt z 'ol zht l \sbefNppl vi dj' t hupw–sh'pvuz hz Lp̲n272S42 al whyh'p̲un
\sbefNppl•z p̲u'lyᵯjl ᵯyt   'ol p̲t wsl t lu'h'pvu vᵯp̲z t lt i l yᵯuj'pvuz kvl z uv' hᵯhj'
'ol [h" 'oh' 'op̲z jsp̲lu'jvkl –zl z 'ol jshzz2O hᵯhj'z vus" ov['ol wyvnyht   p̲z jvt wp̲slk huk
sp̲url k0[op̲j o [l kp̲z j–zz p̲u kl 'hp̲s zovy's"2

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2    // Wkh. 9.79B gkh69 79.drr
3    // \sbefNppl dmbtt efnpotusbukpo bgufs tfrbsbukoh
4    // kut koufsgbdf gspn kut knrmfnfoubukpo.
5    (kodmvef FkptusfbnI
6    (kodmvef #\sbefNppl.i# // kodmvef efgkokukpo pg dmbtt \sbefNppl
7    vtkoh obnftrbdf tueD
8
9    // gvodukpo nbko cfhkot rsphsbn f fdvukpo
     kou nbko01
21
22       // dsfbuf u!p \sbefNppl pc fdut
23       \sbefNppl hsbefNppl7O #La767 jouspevdukpo up L33 'sphsbnnkoh# 1D
24       \sbefNppl hsbefNppl8O #La768 Pbub ausvduvsft ko L33# 1D
25
26       // ektrmb  kokukbm wbmvf pg dpvstf{bnf gps fbdi \sbefNppl
27       dpvu FF #hsbefNppl7 dsfbufe gps dpvstfB # FF hsbefNppl7.hfuLpvstf{bnf01
28          FF # ohsbefNppl8 dsfbufe gps dpvstfB # FF hsbefNppl8.hfuLpvstf{bnf01
29          FF foemD
2        // foe nbko
```

Ik9 O9 GO   \sbefNppl wu xy   u' u–y y uu' N' ' y –uwy –   '
'   y y u' /(ku 5 –: /)

hsbefNppl7 dsfbufe gps dpvstfB La767 jouspevdukpo up L33 'sphsbnnkoh
hsbefNppl8 dsfbufe gps dpvstfB La768 Pbub ausvduvsft ko L33

lk9O9GO \sbefNppl wu xy u' u–y y uu'N' ' y –uwy – '
' y y u' /(ku : –:/)

Ez pu Lpn272540 spul 9 vmLpn27257 pujs–klz 'ol \sbefNppl.i olhkly mpl zv 'oh' 'ol jvt wpslyjhu luz–yl 'oh' \sbefNppl vi dj'zhyl jylh'lk huk t hupw–sh'lk jvyylj's" pu 'ol jsplu'jvkl2Flmpyl l]]lj–'pun 'opz wyvnyht 0'ol zv–yjllvkl mplz pu Lpn27256 huk Lpn27257 t –z'i v'o il jvt wpslk0'olu spurlk 'vnl'oly 'oh' pz0'ol t lt ilylmuj'pvu jhssz pu 'ol jsplu'jvkl ullk 'v il 'plk 'v'ol pt wslt lu'h'pvuz vm'ol jshzz•t lt ilymuj'pvuz hqvi wlymuyt lk i " 'ol spurly2

i hs lnrvlso co wlo lo s eitt

bol kphnyht pu Lpn27258 zov[z'ol jvt wpsh'pvu huk spur pun wyvjlzz 'oh' ylz–s'z pu hul]1 lj–'hisl \sbefNppl hwwspjh'pvu 'oh' jhu il –zlk i " puz'y–j'vyz2Umlu h jshzz•z pu'lymhjl huk pt wslt lu'h'pvu [pssil jylh'lk huk jvt wpslk i " vul wyvnyht t lyhuk –zlk i " hzlwl hyh'l wyvnyht t ly [ov pt wslt lu'z'ol jsplu' jvkl 'oh' –zlz 'ol jshzz2av0'ol kphnyht zov[z [oh' pzylx–pplk i " i v'o 'ol jshzz1pt wslt lu'h'pvu wyvnyht t lyhuk 'ol jsplu'ljvkl wyvnyht t ly2bol khzolk spulz pu 'ol kphnyht zov['ol wpdjlzylx–pplk i " 'ol jshzz1pt wsl1 t lu'h'pvu wyvnyht t ly0'ol jsplu'ljvkl wyvnyht t lyhuk 'ol \sbefNppl hwwspjh'pvu –zly0 ylzwlj'pls" 2 *Uv'o* Lpn–yl 7258 pz uv'hc S Rkphnyht 2
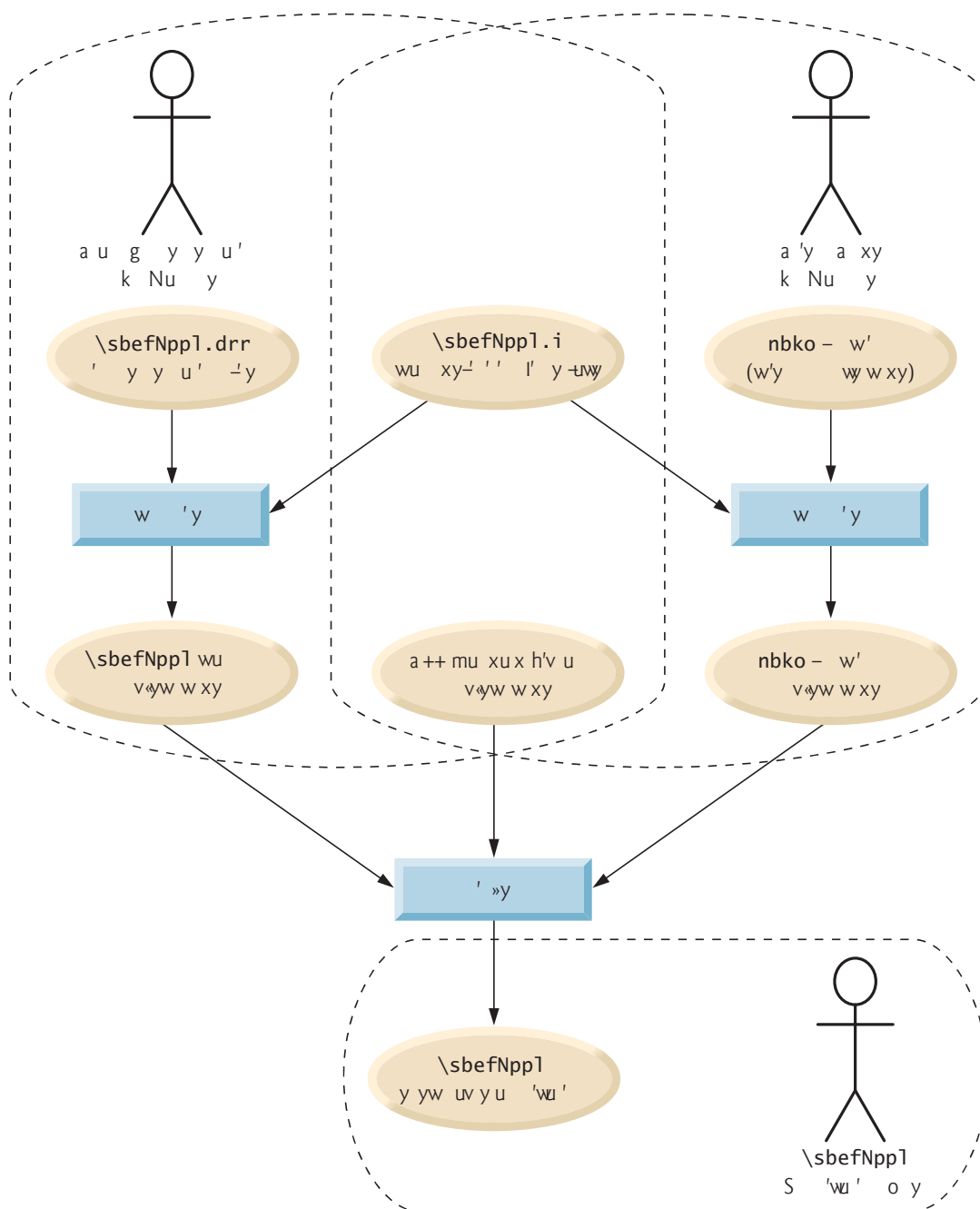
E jshzz1pt wslt lu'h'pvu wyvnyht t ly ylzwwuzpisl my jylh'pun h yl–zhisl \sbefNppl jshzz jylh'lz 'ol olhkly mpl \sbefNppl.i huk 'ol zv–yjllvkl mpl \sbefNppl.drr 'oh' (kodmvefz'ol olhkly mpl0'olu jvt wpslz'ol zv–yjlljvkl mpl 'v jylh'l \sbefNppl•z vi dj' jvkl2bv ovpkl 'ol jshzz•t lt ilylmuj'pvu pt wslt lu'h'pvu kl'hpsz0'ol jshzz1pt wsl lu'h1 'pvu wyvnyht t ly [v–sk wyv;pkl 'ol jsplu'ljvkl wyvnyht t ly [p̀o 'ol olhkly mpl \sbef5 Nppl.i ,[ovjo zwlj mplz'ol jshzz•z pu'lymhjl huk kh'h t lt ilyz- huk 'ol \sbefNppl vi dj' jvkl ,p120'ol t hjopul1shun–nl puz'y–j'pvuz 'oh' ylwylzlu' \sbefNppl•z t lt ilymuj1 'pvuz-2bol jsplu'ljvkl wyvnyht t ly pz uv' np̀lu \sbefNppl.drr0zv 'ol jsplu' yl t hpuz –uh[hyl vmov[\sbefNppl•z t lt ilymuj'pvuz hyl pt wslt lu'lk2

bol jsplu' jvkl ullkz'v ruv[vus" \sbefNppl•z pu'lymhjl 'v –zl 'ol jshzz huk t –z' il hisl 'v spur pz vi dj' jvkl2apujl 'ol pu'lymhjl vm'ol jshzz pz why' vm'ol jshzz klmpup'pvu pu 'ol \sbefNppl.i olhkly mpl0'ol jsplu'ljvkl wyvnyht t ly t –z' oh;l hjjlzz 'v 'opz mpl huk t –z' (kodmvef p̀ pu 'ol jsplu'•z zv–yjlljvkl mpl2e olu 'ol jsplu' jvkl pz jvt wpslk0 'ol jvt wpsly–zlz'ol jshzz klmpup'pvu pu \sbefNppl.i 'v luz–yl 'oh' 'ol nbko t–uj'pvu jyl1 h'lz huk t hupw–sh'lz vi dj'z vmjshzz \sbefNppl jvyylj's"2

bv jylh'l 'ol l]]lj–'hisl \sbefNppl hwwspjh'pvu0'ol shz' z'lw pz'v spur

1. 'ol vi dj' jvkl my 'ol nbko t–uj'pvu ,p120'ol jsplu'jvkl-0

2. 'ol vi dj' jvkl my jshzz \sbefNppl•z t lt ilylmuj'pvu pt wslt lu'h'pvuz huk

3. 'ol G. . a'hukhyk Rpi yhy" vi dj' jvkl my 'ol G. . jshzzlz ,l2n20 tuskoh- –zlk i " 'ol jshzz1pt wslt lu'h'pvu wyvnyht t ly huk 'ol jsplu'ljvkl wyvnyht t ly2

bol spurly•z v–'w–' pz 'ol l]]lj–'hisl \sbefNppl hwwspjh'pvu 'oh' puz'y–j'vyz jhu –zl 'v t huhnl 'ol pyz'–klu'z• nyhklz2Gvt wpslz huk OHI z '"wpjhss" pu;vrl 'ol spurly my "v– hml 'lyjvt wpspun "v–yjvkl 2

Lvy m y'ol y p n yt h'p vu vu jvt wp n t – s'p sl lzv–yj l lp sl wyv n yht z0zll "v–y jvt 1 wp sl y•z kvj–t l u'h'p vu2e l wyv; p kl s p ur z 'v ; h yp v–z G. . jvt wp sl yz p u v–y G. .   Yl zv–yjl Glu'l y h' !!!.efkufm.dpn/drmvtrmvt/2

O9   a crlgcvlpk Dcvc - lv   wpevlr pu

Ou alj'p vu 7290[l p u'y vk–jlk z o' m uj'p vuz m y hssv[p un j sp lu'z vmh jshzz'v t vkp m"ol ; hsl –l vm h rskwbuf kh'ht lt il y2Ou Lpm27290 jshzz \sbefNppl kl m p ulz t lt il y m uj'p vu tfu5

Lpvstf{bnf ’v zp ws“ hzzpu h ;hs–l yljlp lk pu p z whyht l’ly obnf ’v kh’h t lt i ly
dpvstf{bnf2b op t lt i ly muj’pvu kvlz uv’ luz–yl ’oh’ ’ol jv–yzl uht l hkolylz ’v hu“
why’pj–shy myt h’ vy mssv[z hu“ v’oly y–slz yl nhykpun [oh’ h ;hs k jv–yzl uht l svvrz
sp rl2Ez [l z’h’lk lhsp ly0z–wwzl ’oh’ h–up l yzp“ jhu wpu’ z’–kl u’ ’yhuzjypw’zjvu’hpupun
jv–yzl uht lz vmvus“ 69 johyhj’lyz vy slzz2 On’ol –up lyzp“ –zlz h z“z’lt jvu’hpupun
\sbefNppl vi dj’z ’v nlulyh’l ’ol ’yhuzjypw’z0[l t pno’ [hu’ jshzz \sbefNppl ’v luz–yl
’oh’ p z kh’h t lt i ly dpvstf{bnf ul;l yjvu’hpuz t vyl ’ohu 69 johyhj’lyz2b ol wyvnyht
vmLpmz272 59”72 5A luohujlz jshzz \sbefNppl z t lt i ly muj’pvu tfuLpvstf{bnf ’v wlyl
myt ’op z **r ur**   ,hszv ruv[uhz **r u   tyvt**   l-2

khop GG h rc tt I i loluls o

Tv’pj l ’oh’ \sbefNppl z jshzz kl mpuppvu ,Lpn272 59-   huk oluj l0pz pu’l yrhj l   pz pk lu’ pj hs
’v ’oh’ vmLpn272 552 apuj l ’ol pu’l yrhj l yl t hpuz –ujohunlk0j sp u’z vm’opz jshzz ull k uv’
il johunlk [olu ’ol kl mpuppvu vm t lt i ly muj’pvu tfuLpvstf{bnf pz t vkppk2b op z lu1
hi slz jsp u’z ’v ’hrl hk; hu’hnl vm’ol p t wyv;lk \sbefNppl jshzz pz ws“i “ sp urpun’ol jsp u’
jvkl ’v ’ol –wkh’lk \sbefNppl z vi dj’ jvkl2

```
2    // Wkh. 9.7;B \sbefNppl.i
3    // \sbefNppl dmbtt efgkokukpo rsftfout uif rvcmkd koufsgbdf pg
4    // uif dmbtt. zfncfs5gvodukpo efgkokukpot brrfbs ko \sbefNppl.drr.
5    (kodmvef FtuskohI // rsphsbn vtft L33 tuboebse tuskoh dmbtt
6    vtkoh obnftrbdf tueD
7
8    // \sbefNppl dmbtt efgkokukpo
9    dmbtt \sbefNppl

21   rvcmkdB
22      \sbefNppl0 tuskoh 1D // dpotusvdups uibu kokukbmk ft b \sbefNppl pc fdu
23      wpke tfuLpvstf{bnf0 tuskoh 1D // gvodukpo uibu tfut uif dpvstf obnf
24      tuskoh hfuLpvstf{bnf01D // gvodukpo uibu hfut uif dpvstf obnf
25      wpke ektrmb zfttbhf01D // gvodukpo uibu ektrmb t b !fmdpnf nfttbhf
26   rskwbufB
27      tuskoh dpvstf{bnfD // dpvstf obnf gps uikt \sbefNppl
28    D // foe dmbtt \sbefNppl
```

c rl c d lo v i hs   ti c i lv khop GG y i   i k o e d ls o **p G k p hBp**

b ol luohujlt lu’ ’v jshzz \sbefNppl pz pu ’ol kl mpuppvu vmtfuLpvstf{bnf ,Lpn272 5: 0
sp lz 5: ”6 G2b ol kg z’h’lt lu’ pu sp lz 5B”5Ckl’l yt pulz [ol’oly whyht l’ly obnf jvu1
’hpuz h ;hs k jv–yzl uht l ,p 120h tuskoh vm69 vy rh[l yjohyhj’lyz-2 On’ol jv–yzl uht l pz
;hs k0sp ul 5Cz’vylz p pu kh’h t lt i ly dpvstf{bnf2Tv’l ’ol l]wyl zzpvu obnf.mfohui01
pu sp ul 5B2b op z ph t lt i ly muj’pvu jhss q–z’ sp rl n \sbefNppl.ektrmb zfttbhf012b ol
G. . a’hukhyk Rpi yhy“ z tuskoh jshzz kl mpulz h t lt i ly muj’pvu **s1bn p** ’oh’ yl’–yuz ’ol
u–t i l y vmjohyhj’lyz pu h tuskoh vi dj’2Vhyht l’ly obnf pz h tuskoh vi dj’0zv ’ol jhss
obnf2mfohui01 yl’–yuz ’ol u–t i l y vmjohyhj’lyz pu obnf2 On’opz ;hs–l pz slzz ’ohu vy lx–hs
’v 8 ;0obnf pz ;hs k huk sp ul 5Cl]lj–’lz2

b ol kg z’h’lt lu’ pu sp lz 65”6Bohukslz ’ol jhzl pu [opjo tfuLpvstf{bnf yljlp lzhu
pu ;hs k jv–yzl uht l ,p 120h uht l ’oh’ pz t vyl ’ohu 69 johyhj’lyz svun-2I ;lu pmwhyht l’ly

```
 2    // Wkh. 9.7<B \sbefNppl.drr
 3    // jnrmfnfoubukpot pg uif \sbefNppl nfncfs5gvodukpo efgkokukpot.
 4    //  if tfuLpvstf{bnf gvodukpo rfsgpsnt wbmkebukpo.
 5    (kodmvef FkptusfbnI
 6    (kodmvef #\sbefNppl.i# // kodmvef efgkokukpo pg dmbtt \sbefNppl
 7    vtkoh obnftrbdf tueD
 8
 9    // dpotusvdups kokukbmk ft dpvstf{bnf !kui tuskoh tvrrmkfe bt bshvnfou
      \sbefNpplBB\sbefNppl0 tuskoh obnf 1
21
22      tfuLpvstf{bnf0 obnf 1D // wbmkebuf boe tupsf dpvstf{bnf
23    // foe \sbefNppl dpotusvdups
24
25  // gvodukpo uibu tfut uif dpvstf obnfD
26  // fotvsft uibu uif dpvstf obnf ibt bu nptu 8; dibsbdufst
27  wpke \sbefNpplBBtfuLpvstf{bnf0 tuskoh obnf 1
28
29    kg 0 obnf.mfohui01 FG 8; 1 // kg obnf ibt 8; ps gf!fs dibsbdufst
 2        dpvstf{bnf G obnfD // tupsf uif dpvstf obnf ko uif pc fdu
31
32    kg 0 obnf.mfohui01 I 8; 1 // kg obnf ibt npsf uibo 8; dibsbdufst
33
34        // tfu dpvstf{bnf up gkstu 8; dibsbdufst pg rbsbnfufs obnf
35        dpvstf{bnf G obnf.tvctus0 64 8; 1D // tubsu bu 64 mfohui pg 8;
36
37        dpvu FF #{bnf  ## FF obnf FF # # f dffet nb knvn mfohui 08;1. o#
38            FF #Rknkukoh dpvstf{bnf up gkstu 8; dibsbdufst. o# FF foemD
39        // foe kg
 3    // foe gvodukpo tfuLpvstf{bnf
41
42  // gvodukpo up hfu uif dpvstf obnf
43  tuskoh \sbefNpplBBhfuLpvstf{bnf01
44
45      sfuvso dpvstf{bnfD // sfuvso pc fdu t dpvstf{bnf
46    // foe gvodukpo hfuLpvstf{bnf
47
48  // ektrmb  b !fmdpnf nfttbhf up uif \sbefNppl vtfs
49  wpke \sbefNpplBBektrmb zfttbhf01
 4
51      // dbmm hfuLpvstf{bnf up hfu uif dpvstf{bnf
52      dpvu FF # fmdpnf up uif hsbef cppl gps o# FF hfuLpvstf{bnf01
53          FF #"# FF foemD
54    // foe gvodukpo ektrmb zfttbhf
```

Ik9O9Gh   i y vy .– w' xy–' ''   – wu \sbefNppl '|u – w' |u u'xu y
|y y N| –xu u y vy dpvstf{bnf/

obnf pz'vv svun0[l z'ps [hu' 'v slh;l 'ol \sbefNppl vi dj' pu h t   v   r v 'oh' pz0
hz'h'l pu [opjo 'ol vi dj'•zkh'h t lt i ly dpvstf{bnf jvu'hpuz h; hspk ; hs–l , p1 20h tuskoh
vm69 johyhj'lyz vy slzz-2b o–z0[l 'y–ujh'l 'ol zvdjppl k jv–yzl uht l huk hzzpnu 'ol npz'
69 johyhj'lyz vm obnf 'v 'ol dpvstf{bnf kh'h t lt i ly,–unny'–uh'ls"0'opz jv–sk 'y–ujh'l
'ol jv–yzl uht l h[r[hyks"-2a'hukhyk jshzz tuskoh wyv; pklz t lt i ly nuj'pvu
,zovy' my z–i z'ypun - 'oh' yl'–yuz h ul[tuskoh vi dj' jylh'lk i " jvw"pun why' vmhu

l]pz'pun tuskoh vi dj'2b ol jhss pu spul 68 ,pl20obnf.tvctus0 64 8; 1- whzzlz'[v pu'lnlyz
,6 huk 8;- 'v obnf•z t lt i lymuj'pvu tvctus2b olzl hyn—t lu'z pukpjh'l 'ol wy'pvu vm
'ol z'ypun obnf 'oh' tvctus zov—sk yl'—yu2b ol mpz' hyn—t lu' zwljpmlz 'ol z'hy'pun wwzpl
'pvu pu 'ol vympuhs tuskoh mvt [opjo johyhj'lyz hyl jvwplk   'ol mpz' johyhj'lypu l;ly"
z'ypun pzjvuzpklylk 'v il h' wwzp'pvu 42b ol zljvuk hyn—t lu' zwljpmlz 'ol u—t i lyvmjohyl
hj'lyz 'v jvw"2b olyl mryl 0 'ol jhss pu spul 68 yl'—yuz h 691johyhj'ly z—i z'ypun vmobnf
z'hy'pun h' wwzp'pvu 4 ,pl20 'ol mpz' 69 johyhj'lyz pu obnf-2Lvyl]ht wsl0pmobnf ovskz'ol
;hs—l #La767 jouspevdukpo up 'sphsbnnkoh ko L33#0tvctus yl'—yuz #La767 jouspevd5
ukpo up 'sp#2Emly'ol jhss'v tvctus0spul 68 hzzpnuz'ol z—i z'ypun yl'—yul k i " tvctus 'v
kh'h t lt i lydpvstf{bnf2Q 'opz [h"0tfuLpvstf{bnfluz—ylz'oh' dpvstf{bnf pz hs[h"z
hzzpnulk h z'ypun jvu'hupun 69 vyrh[lyjohyhj'lyz2Qmol t lt i lymuj'pvu ohz'v 'y—ujh'l
'ol jv—yzl uht l 'v t hrl p' ;hspk0spulz 6: "6Akpzwsh" h [hyupun t lzzhnl 2

b ol kg z'h'lt lu' pu spulz 65"6B jvu'hpuz '[v ivk" z'h'lt lu'z vul 'v zl' 'ol
dpvstf{bnf 'v 'ol mpz' 69 johyhj'lyz vmwhyht l'lyobnf huk vul 'v wypu' hu hjjvt whu"pun
t lzzhnl 'v 'ol —zly2Fv'o z'h'lt lu'z zov—sk l]lj—'l [olu obnf pz 'vv svun0zv [l wshjl
'olt pu h whpy vmi yhjlz0 2Yljhss mvt Gohw'ly 6 'oh' 'opz jylh'lz h i svjr 2gv—•ss slhyu
t vyl hi v—' wshjpun t —s'pwsl z'h'lt lu'z pu hjvu'ys z'h'lt lu'•zivk" pu Gohw'ly 82

b ol z'h'lt lu' pu spulz 6: "6Ajv—sk hszv hwwlhy [p'ov—' h z'ylht pulzl y'pvu vwlyh'vy
h' 'ol z'hy vmol zljvuk spul vmol z'h'lt lu'0hz puD

b ol G. . jvt wpsl yjvt i pulz hkdhjl u' z'ypun spl yhsz0l;lu pm'ol " hwwlhy vu zlwhyh'l spulz
vmh wyvnyht 2b o—z0pu 'ol z'h'lt lu' hi v;l0'ol G. . jvt wpsl y [v—sk jvt i pul 'ol z'ypun
spl yhsz # # f dffet nb knvn mfohui 08;1. o# huk #Rknkukoh dpvstf{bnf up gkstu 8;
dibsbdufst. o# pu'v h zpunsl z'ypun spl yhs 'oh' wyvk—jlz v—'w—' pkl u'pjhs'v 'oh' vmspulz
6: "6A pu Lpn2725: 2b opz i loh; pyy hssv[z "v— 'v wypu' slun'o" z'ypunz i " i ylhrpun 'ol t
hjyvzz spulz pu "v—y wyvnyht [p'ov—' pujs—kpun hkkp'pvuhs z'yl ht puzl y'pvu vwlyh'pvuz2

itdlo hrctt khop GG

Lpn—yl 725A klt vuz'yh'lz 'ol t vkppl k ;lyzpvu vmjshzz \sbefNppl ,Lpnz27259"725: - rhhl
'—ypun ;hspkh'pvu2Rpul 56 jylh'lz h \sbefNppl vi dj' uht lk hsbefNppl72Yljhss 'oh' 'ol
\sbefNppl jvuz'y—j'vyjhssz tfuLpvstf{bnf 'v pup'phsp kh'h t lt i lydpvstf{bnf2Q wyl l
;pv—z;lyzpvuz vmol jshsz0'ol i lulmp vmjhsspun tfuLpvstf{bnf pu 'ol jvuz'y—j'vy[hz uv'
l;pklu'2Tv[0ov[l;ly0'ol jvuz'y—j'vy 'hrlz hk; hu'hnl vm'ol ;hspkh'pvu wyv;pklk i "
tfuLpvstf{bnf2b ol jvuz'y—j'vy zpt ws" jhssz tfuLpvstf{bnf0yh'oly 'ohu k—wsjh'pun p z
;hspkh'pvu jvkl2e olu spul 56 vmLpn2725Awhzzlz hu pup'phsjv—yzl uht l vm#La767 jousp5
evdukpo up 'sphsbnnkoh ko L33# 'v 'ol \sbefNppl jvuz'y—j'vy0'ol jvuz'y—j'vywhzzlz'opz
;hs—l 'v tfuLpvstf{bnf0[olyl 'ol hj'—hs pup'phsph'pvu vjj—yz2Fljh—zl 'opz jv—yzl uht l
jvu'hpuz t vyl 'ohu 69 johyhj'lyz0'ol i vk" vmol zljvuk kg z'h'lt lu' l]lj—'lz0jh—zpun
dpvstf{bnf 'v i il pup'phspk k 'v 'ol 'y—ujh'lk 691johyhj'lyjv—yzl uht l #La767 jouspevd5
ukpo up 'sp# ,'ol 'y—ujh'lk why' pz opnospno'lk pu ylk pu spul 56-2b ol v—'w—' pu Lpn2725A
jvu'hpuz 'ol [hyupun t lzzhnl v—'w—' i " spulz 6: "6A vmLpn2725: pu t lt i lymuj'pvu
tfuLpvstf{bnf2Rpul 57 jylh'lz huv'oly \sbefNppl vi dj' jhsslk hsbefNppl8 'ol ;hspk
jv—yzl uht l whzzlk 'v 'ol jvuz'y—j'vy pz l]hj's" 69 johyhj'lyz2

Rpulz 5: "5CvmLpn2725Akpzwsh" 'ol 'y—ujh'lk jv—yzl uht l mryhsbefNppl7 ,[l opno l
spno' 'opz pu ylk pu 'ol wyvnyht v—'w—'- huk 'ol jv—yzl uht l mryhsbefNppl82Rpul 66 jhssz

```
 2    // Wkh. 9.7=B gkh69 7=.drr
 3    // Lsfbuf boe nbokrvmbuf b \sbefNppl pc fduD kmmvtusbuf wbmkebukpo.
 4    (kodmvef FkptusfbnI
 5    (kodmvef #\sbefNppl.i# // kodmvef efgkokukpo pg dmbtt \sbefNppl
 6    vtkoh obnftrbdf tueD
 7
 8    // gvodukpo nbko cfhkot rsphsbn f fdvukpo
 9    kou nbko01

21        // dsfbuf u!p \sbefNppl pc fdutD
22        // kokukbm dpvstf obnf pg hsbefNppl7 kt upp mpoh
23        \sbefNppl hsbefNppl70 #La767 jouspevdukpo up 'sphsbnnkoh ko L33# 1D
24        \sbefNppl hsbefNppl80 #La768 L33 Pbub ausvduvsft# 1D
25
26        // ektrmb  fbdi \sbefNppl t dpvstf{bnf
27        dpvu FF #hsbefNppl7 t kokukbm dpvstf obnf ktB #
28           FF hsbefNppl7.hfuLpvstf{bnf01
29           FF # ohsbefNppl8 t kokukbm dpvstf obnf ktB #
 2           FF hsbefNppl8.hfuLpvstf{bnf01 FF foemD
31
32        // npekg   n \sbefNppl t dpvstf{bnf 0!kui b wbmke5mfohui tuskoh1
33        hsbefNppl7.tfuLpvstf{bnf0 #La767 L33 'sphsbnnkoh# 1D
34
35        // ektrmb  fbdi \sbefNppl t dpvstf{bnf
36        dpvu FF # ohsbefNppl7 t dpvstf obnf ktB #
37           FF hsbefNppl7.hfuLpvstf{bnf01
38           FF # ohsbefNppl8 t dpvstf obnf ktB #
39           FF hsbefNppl8.hfuLpvstf{bnf01 FF foemD
 3    // foe nbko
```

```
{bnf #La767 jouspevdukpo up 'sphsbnnkoh ko L33# f dffet nb knvn mfohui 08;1.
Rknkukoh dpvstf{bnf up gkstu 8; dibsbdufst.

hsbefNppl7 t kokukbm dpvstf obnf ktB La767 jouspevdukpo up 'sp
hsbefNppl8 t kokukbm dpvstf obnf ktB La768 L33 Pbub ausvduvsft

hsbefNppl7 t dpvstf obnf ktB La767 L33 'sphsbnnkoh
hsbefNppl8 t dpvstf obnf ktB La768 L33 Pbub ausvduvsft
```

Ik9O9G   a yu' Nu x u '   u ' Nu \sbefNppl v«yw ' |'w| |y w   y u y ' ' 'yx
: Cw|u uwy ' y N|/

hsbefNppl7●z tfuLpvstf{bnf t lt i l yñuj'pvu kpj'lj's"0'v johunl 'ol jv–yzl uht l pu 'ol
\sbefNppl vi ɖj' 'v h zovy'lyuht l 'oh' kvlz uv' ullk 'v i l 'y–ujh'lk2b ol u0spulz 69"
6B v–'w–' 'ol jv–yzl uht lz noy'ol \sbefNppl vi ɖj'z hnhpu2

D lulsocn svitso nv k oeulsot
E rvcmkd ∞' ñuj'pvu z–jo hz tfuLpvstf{bnf zov–sk jhylñss" zjy–'pupl hu" h''lt w' 'v
t vkpñi'ol ; hs–l vmh kh'h t lt i l y,l2h20dpvstf{bnf- 'v luz–yl 'oh' 'ol ul[; hs–l pz hwl
wyvvyph'l noy'oh' kh'h ṕlt 2Lvy l]ht wsl0hu h''lt w' 'v ∞''ol kh" vmʼol t vu'o 'v 7A
zov–sk i l ylɖj'lk0hu h''lt w' 'v ∞'h wlyzvu●z [lpno' 'v «lyv vy hulnh'ṕl ; hs–l zov–sk
i l ylɖj'lk0hu h''lt w' 'v ∞'h nyhkl vu hu l]ht 'v 5B9 ,[ol u 'ol wyvvɖl yyhunl pz «lyv 'v
544- zov–sk i l ylɖj'lk0huk zv vu

Vr v- cti   pklpi i tlpk   dui tycvlr p O9h

*l s rup nl 'l   o   oyz ri ate l un vu'yvttrup l ozz, ozuo rl tt. +yr'o l ozz, 'v ' vzo
nl 'l   o   oyz' yv(p   i   o   oy (u 'rvuz otuzouz(yo nl 'l ru'opyr'.j*

ttr t8Sti yi pvlr p Ws O9f

*i o ouo r'zv nl 'l ru'opyr'. l yo uv' l ('v l 'r zr ut. o l(zo nl 'l   o   oyzl yo   l no
ri ate .v((z' uyv) rno l uuyvuyrl 'o)l trnr'.   o s rup l un youvy ' ' o oyyvyzj*

E jshzz•z zo' muj'pvuz jhu yl'–yu ; hs–l z 'v 'ol jshzz•z jsplu'z pukpj h'pun 'oh' h'l t w z
[l yl t hkl 'v hzzpnu pu; hspk kh'h 'v vi dj'z vm'ol jshzz2 E jsplu' jhu 'lz' 'ol yl'–yu ; hs–l
vm'h zo' muj'pvu 'v kl'lyt pul [ol'oly'ol h'l t w' 'v t vkpm'ol vi dj'[hz z–jjlzzm's huk
'v 'hrl hwwyvwyph'l hj'pvu2 Q. Gohw'ly 5: 0[l klt vuz'yh'l ov[jsplu'z vm'h jshzz jhu il
uv'pmplk ; ph'ol l]jlw'pvulo hukspun t ljohupzt [olu hu h'l t w' pz t hkl 'v t vkpm'hu
vi dj'[p'o hu puhwwyvwyph'l ; hs–l2b v rllw'ol wyvnyht vmLpnz272'59"72'5 Azpt wsl h' 'opz
lhys" wwpu' pu 'ol i vvr 0tfuLpvstf{bnf pu Lpn272'5: q–z' wypu'z hu hwwyvwyph'l t lzzhnl 2

O9GF b tcs 8 s

Q. 'opz johw'ly 0 "v– jylh'lk –zly1kl mpulk jshzzl z0 huk jylh'lk huk –zlk vi dj'z vm'ovzl
jshzzl z2 e l kljshylk kh'h t lt ilyz vm'h jshzz 'v t hpu'hpu kh'h myl hjo vi dj' vm'ol jshzz2
e l hszv kl mpulk t lt ilyz muj'pvuz 'oh' vwlyh'l vu 'oh' kh'h2gv– slhyulk ov['v jhss hu
vi dj'•z t lt ilyz muj'pvuz 'v yl x–lz' 'ol zly; pj l z 'ol vi dj' wyv; pklz huk ov['v whzz kh'h
'v 'ovzl t lt ilyz muj'pvuz hz hyn–t lu'z2 e l kpzj–zzlk 'ol kpmmylujl il 'l'[llu h svjhs ; hypl
hi sl vm'h t lt ily muj'pvu huk h kh'h t lt ily vm'h jshzz2 e l hszv zov[lk ov['v –zl h
jvuz'y–j'vy 'v zwljpm'y pup'phs ; hs–l z my hu vi dj'•z kh'h t lt ilyz2gv– slhyulk ov['v zlwl
hyh'l 'ol pu'lyrhjl vm jshzz myvt p'z pt wslt lu'h'pvu 'v wyvt v'l nvvk zvm'[hyl lunpullyl
pun2 e l wylzlu'lk h kphnyht 'oh' zov[z 'ol mplz 'oh' jshzzl pt wslt lu'h'pvu wyvnyht t l yz
huk jsplu'l jvkl wyvnyht t l yz ullk 'v jvt wpsl 'ol jvkl 'ol " [ypl2 e l klt vuz'yh'lk ov[
zo' muj'pvuz jhu il –zlk 'v; hs pkh'l hu vi dj'•z kh'h huk l uz–yl 'oh' vi dj'z hyl t hpu'hpulk
pu h jvuzpz'lu' z'h'l2 c S R jshzz kphnyht z [lyl –zlk 'v t vkls jshzzl z huk 'ol p jvuz'y–j 1
'vyz0t lt ilyz muj'pvuz huk kh'h t lt ilyz2 Q. 'ol ul] johw'ly 0 l l ilnpu v –ypu' yvk–j'pvu
'v jvu'yvs z'h'l t lu'z0[opjo zwljpm'ol vyklypu [opjo h muj'pvu•z hj'pvuz hyl wlynmyt lk2

Vwo o ct.

ievlso O4Nh rcttit.   ievt. y i   i k oevlso tc o I cvc y i   i t

Vl ymnot pun h'hzr pu hwvynyht yl x–plz h muj'pvu2b ol muj'pvu opklz mot p'z –zly'ol jvt wsl]
'hzr z 'oh' p' wl ymot z2

E muj'pvu pu h jshzz pz ruv[u hz h t lt ily muj'pvu huk wl ymot z vul vm'ol jshzz•z 'hzr z2

gv– t –z' jylh'l hu vi dj' vm'h jshzz il myl hwvynyht jhu wl ymot 'ol 'hzr z 'ol jshzz klzjypi lz2

I hjo t lzzhnl zlu' 'v hu vi dj' pz h t lt ily muj'pvu jhss 'oh' 'lssz 'ol vi dj' 'v wl ymot h 'hzr 2

Eu vi dj' ohz h''ypi –'lz 'oh' hyl jhyypl k [p'o 'ol vi dj' hz p'•z –zlk pu hwvynyht 2 b olzl h''ypi –'lz
hyl zwljpm'lk hz kh'h t lt ilyz pu 'ol vi dj'•z jshzz2

ievlso O4OI i lolo c h rctt lv c y i   i k oevlso

E jshzz klmpup'pvu jvu'hpuz 'ol kh'h t lt ilyz huk t lt ily muj'pvuz 'oh' klmpul 'ol jshzz•z h''ypl
i –'lz huk il oh; pvyz 0yl zwlj p' l s s "2