h d k b(f (i kk ks(u m3(ds (C

10

j v cu.ws ti ’i s l’cui io t.
qs l tvie iculo s s lio th
dxs - dx uxy

aotuic s vltc t l’ltlso lows ti itvi s vws enctt is nictturule co oc leA
- r s lx

uc’ios lio tosvi cnws s tinA
d Euy

m pn0s2p.

b| wx rwo t ——to |H

- i— trxu **dpotu** (r┼ o|) ‑pytr o|s **dpotu** z tz pt u |r x┼ 0
- i‑r tot ‑pytr r‑z —ts ‑u—wt ‑pytr 0
- i— t **gskfoe** u |r x┼ o|s **gskfoe** r‑o t 0
- i— t wt **uikt** ‑x| t 0
- i— t **tubukd** so o z tz pt o|s z tz pt u |r x┼ 0
- i wt r‑┼rt ‑uor┼ ox|t r‑o 0
- i wt |‑x┼‑uxt o—r‑o t wo o‑’ w—vw wt t‑tz t| ‑ur┼ ox|t r‑o t 0
- i— t — r‑o t ‑wst xz ‑tz t| ox┼st ox‑ u‑z or‑o r‑xt| 0

Outline

- UOIU b| -s r x+|
- UOIf dpotu (O+| o|) e pytr o|s dpotu d tz pt U |r x+|
- UOIh O-z -xx+|He pytr o d tz pt -u O-o t
- UOIj gskfoe U |r x+| o|s gskfoe O-o t
- UOI j x|v wt uikt f-x| t
- UOI tubukd O-o d tz pt
- UOI Poo l p or x+| o|s b|u-z o x+| a xsx|v
- UOI l o .j

Summary | *Terminology* | *Self-Review Exercises* | *Answers to Self-Review Exercises* | *Exercises* | *Making a Difference*

UOIU w0-(o l n0s(w

Pv -pq kpix-m0[mkw-qy; mw; z '-; l " wnkti''m ivl l i-i ij '-zik-qw [qp 'm m i t u wzm il ?ivkml -wxqk'2f m; 'm dpotu wj mk-' ivl dpotu u mu j m n; vk-qw' -wxzm m-u wl qqki l -qw' wn wj mk-' ivl m nwzkm-pmxzqykqtmwntmi'-xzq qnom2f ml qk;'' kwu xw'q-qw i nwzu wnzm;'mqy [pdp i kti'' kiv pi?mwj mk-' wnw-pmz kti''m i' u mu j m'2Um -0[mqy l -zwl ; kmnzqwl 'pqx0[pdp mij tm i kti'' l mqpvm -w'xmkq vwwu mu j m n; vk-qw' -pi-ki v ikkm' i kti''-vww l rvcmkd u mu j m' i -nkpvqy; m-pi-q wn-m ; 'ml qy wxmi-wz w?m l twil qvo ,Hpix-m 55- nwz xmnwzu ivkmzmi'ww'2f ml qk;'' i 'xmkqi txwqy-m ,kitml uikt-0 [pdp q iv qu xtqkq-izo; u m--wmikp wni kti''-vww l tubukd u mu j m n; vk-qw'2P-ittw[' -pw'mu mu j m n; vk-qw' -wikkm' -pmkwzznk-wj mk--l i-i u mu j m' ivl w-pmzvww l tubukd u mu j m n; vk-qw'2My itt"0[mu w-q i-m-pmvmml nwz tubukd kti'' u mu j m' ivl 'pw[pw[-w; 'mtubukd l i-i u mu j m' ivl u mu j m n; vk-qw' qy "w; z w[v kti''m2

UOIf e f 9P(w.0l w0: mpn0. l wo e f pv mp- l wn0s(w.

Sm-'-mnpw[-pmxzqykqtmwntmi'-xzqqnomixxtqm -wwj mk-'2bwu mwj mk-' vmml -wj m u wl qqij tmivl 'wu ml wvw-2hw; u i" ; 'ms m"[wzl dpotu -w'xmkq" -pi-iv wj mk-q vww-u wl qqij tmivl -pi-iv" i-mu x--wu wl q" -pmwj mk-'pw; tl zm; t-qy i kwu xqi-qw mzwz2 c pm'-i-mu m-

```
dpotu \knf oppo+ 451 31 3 ,>
```

l mkti zm i dpotu wj mk-oppo wnkti'' \knf ivl qyqqj tqm q--w 56 vwww2

d(03 l-p wr swpp-swr m p-2l 0s(w UOIU

zzn vzy zu ul p+k t bc u nz kum k'o z kz u vpsn zp n ukz nvz kt k'ypt o n n 'zput -zp n nuonyc

bp- (-v l wnp e s) UOIU

Dn skupt o (kupk sny kt l u n zy t bc) nt kvvuwupkzn kt p vuu(n vnuuw kt n u vpsnuy kt vnuuw nukpt uvzp p kzput y ut ut ykt zy z kz kt t uz n vnuuw nl ut (kupk snyc

H. . l qj i ttw[' u mu j mz n, vk-qw ki tt' nwz dpotu wj mk-' ; vtm' -pmu mu j mz n, vk-qw' -pmu 'mʔ m i zmi t' wl nktizml dpotu2c pq q -z; mmmr nwz *onz* u mu j mz n, vk-qw' -pi -l wvw-u wl qi" -pmwj mk-2

E u mu j mz n, vk-qw q 'xnkqml i ' dpotu *uz* qy q- xzw-w-"xm, Mp2542,5 tqym 5C 68- i vl qy q- l mqyqqw ,Mp2542,6 tqym 8708C099 i vl : 5- j " qy' mz-qy o -pms m"[wzl dpotu i n-mz -pmn, vk-qw--xi zi u mmz tq-i vl 0qy -pmki ' mwn-pmn, vk-qw l mqyqqw 0j mwzm-pmtm-j zi km-pi -j moqy' -pmn, vk-qw j wl "2

P(v v (wb-(r -l v v swr --(- UCIU

Dnptpt o ky t bc k n nw' t zput z kz ul ppnyk l kzk n nwu z nu n zpyk u - vpskzput nuouwe

P(v v (wb-(r -l v v swr --(- UCIf

Dnptpt o ky t bc k n nw' t zput z kz kssyk t ut - t bc n nw' t zput u z n skyy ut z nyk nu n zpyk u vpskzput nuouwe

P(v v (wb-(r -l v v swr --(- UCIh

N(urpt o k t ut - t bc n nw' t zput ut k t bc u n zpyk u vpskzput nuouwe

d(03 l -p wr swpp-swr m p-2l 0s(w UCIf

t bc n nw' t zput kt n u(nuukl nl) pz k t ut - t bc (nuyput c g n u vpsnw uuyny) p u(nuukl nl n nw' t zput zu ' yn kynl ut z n u n z ut) p z n ' t zput pypt (urnl c Nz nu n zpy t bc, z n u vpsnw' ynyz n t bc (nuyput c Nz nu n z py t uz t bc, z n u vpsnw' ynyz n t ut - t bc (nuyput c

Ev qy-mzm-qy o xzwj tmu izqm nwz kw' -z; k-wz' i vl l m-z; k-wz' 0mikp wn[pqkp -"xqki tt" u wl qqm wj mk-' 2E kw' -z; k-wz u ; ' -j mi ttw[ml -wu wl qi" i v wj mk-' w-pi --pmwj mk-ki v j mqyqqj tq' ml xzwxmt"2E l m-z; k-wz u ; ' -j mi j tm-wxmmwzu q- -mu qy i -qw pw; ' ms mmxqy o kpwzm j mwzmi v wj mk---u mu wz" q znkti qu ml j " -pm' "' -mu 2

P(v v (wb-(r -l v v swr --(- UCIj

zzn vzpt o zu l n skwn k ut yzw zuwuwl nyzw zuw t bc pyk u vpskzput nuouwe

I i lolo co tlo 1Dvy z i i q oedsot

c pmxzwozi u wn Mp' 2542,5 542,7 u wl qqm kti ' ' \knf wn Mp' 2C2B C2C j " u i sqy o q- *onz* n, vk-qw' i vl rskou]okwfstbm n, vk-qw dpotu2Pv -pmpnil mzqm\knf.i ,Mp2542,5-0tqym 5C 65 i vl 68 vw[qy kt; l ms m"[wzl dpotu i n-mz mikp n, vk-qw--xi zi u mmz tq-2c pmkwz1 zmxwwl qy o l mqyqqw wnmikp n, vk-qw qy Mp2542,6 , tqym 8708C099 i vl : 50zmxmk-qmt"- i t' w' xnkqqm s m"[wzl dpotu i n-mz mikp n, vk-qw--xi zi u mmz tq-2

```
// Ikh. 43.4= \knf.i
// \knf dmbtt efgkokukpo !kui dpotu nfncfs gvodukpot.
// Tfncfs gvodukpot efgkofe ko \knf.drr.
%kgoefg \NTH~M
%efgkof \NTH~M
```

sr l UCIU \knf r-o stu|xx-| xwdpotu z tz pt u |r x-| 0(fo 3 -u40)

```

class \knf

rvcmkd=
   \knf+ kou A 31 kou A 31 kou A 3 ,> // efgbvmu dpotusvdups

   // tfu gvodukpot
   wpke tfu\knf+ kou1 kou1 kou ,> // tfu uknf
   wpke tfuMpvs+ kou ,> // tfu ipvs
   wpke tfuTkovuf+ kou ,> // tfu nkovuf
   wpke tfuafdpoe+ kou ,> // tfu tfdpoe

   // hfu gvodukpot +opsnbmm  efdmbsfe dpotu,
   kou hfuMpvs+, dpotu> // sfuvso ipvs
   kou hfuTkovuf+, dpotu> // sfuvso nkovuf
   kou hfuafdpoe+, dpotu> // sfuvso tfdpoe

   // rskou gvodukpot +opsnbmm  efdmbsfe dpotu,
   wpke rskou]okwfstbm+, dpotu> // rskou vokwfstbm uknf
   wpke rskouauboebse+,> // rskou tuboebse uknf +tipvme cf dpotu,
rskwbuf=
   kou ipvs> // 3 2 56 +572ipvs dmpdl gpsnbu,
   kou nkovuf> // 3 2 8<
   kou tfdpoe> // 3 2 8<
 > // foe dmbtt \knf

%foekg
```

srl UOIU \knf r-o stux|xx┼ xwdpotu z tz pt u |r x┼ 0(fo 4 –u40)

```
// Ikh. 43.5= \knf.drr
// \knf dmbtt nfncfs2gvodukpo efgkokukpot.
%kodmvef ?kptusfbnB
%kodmvef ?kpnbokrB
%kodmvef #\knf.i# // kodmvef efgkokukpo pg dmbtt \knf
vtkoh obnftrbdf tue>

// dpotusvdups gvodukpo up kokukbmk f rskwbuf ebub>
// dbmmt nfncfs gvodukpo tfu\knf up tfu wbskbcmft>
// efgbvmu wbmvft bsf 3 +tff dmbtt efgkokukpo,
\knf==\knf+ kou ipvs1 kou nkovuf1 kou tfdpoe ,

   tfu\knf+ ipvs1 nkovuf1 tfdpoe ,>
  // foe \knf dpotusvdups

// tfu ipvs1 nkovuf boe tfdpoe wbmvft
wpke \knf==tfu\knf+ kou ipvs1 kou nkovuf1 kou tfdpoe ,

   tfuMpvs+ ipvs ,>
   tfuTkovuf+ nkovuf ,>
   tfuafdpoe+ tfdpoe ,>
  // foe gvodukpo tfu\knf
```

srl UOIf \knf r-o z tz pt .u |r x┼ stux|xx┼ 0(fo 3 –u40)

```

// tfu ipvs wbmvf
wpke \knf==tfuMpvs+ kou i ,

   ipvs A + i BA 3 )) i ? 57 , D i = 3> // wbmkebuf ipvs
  // foe gvodukpo tfuMpvs

// tfu nkovuf wbmvf
wpke \knf==tfuTkovuf+ kou n ,

   nkovuf A + n BA 3 )) n ? 93 , D n = 3> // wbmkebuf nkovuf
  // foe gvodukpo tfuTkovuf

// tfu tfdpoe wbmvf
wpke \knf==tfuafdpoe+ kou t ,

   tfdpoe A + t BA 3 )) t ? 93 , D t = 3> // wbmkebuf tfdpoe
  // foe gvodukpo tfuafdpoe

// sfuvso ipvs wbmvf
kou \knf==hfuMpvs+, dpotu // hfu gvodukpot tipvme cf dpotu

   sfuvso ipvs>
  // foe gvodukpo hfuMpvs

// sfuvso nkovuf wbmvf
kou \knf==hfuTkovuf+, dpotu

   sfuvso nkovuf>
  // foe gvodukpo hfuTkovuf

// sfuvso tfdpoe wbmvf
kou \knf==hfuafdpoe+, dpotu

   sfuvso tfdpoe>
  // foe gvodukpo hfuafdpoe

// rskou \knf ko vokwfstbm2uknf gpsnbu +MM=TT=aa,
wpke \knf==rskou]okwfstbm+, dpotu

   dpvu ?? tfugkmm+  3  , ?? tfu!+ 5 , ?? ipvs ?? #=#
      ?? tfu!+ 5 , ?? nkovuf ?? #=# ?? tfu!+ 5 , ?? tfdpoe>
  // foe gvodukpo rskou]okwfstbm

// rskou \knf ko tuboebse2uknf gpsnbu +MM=TT=aa ET ps YT,
wpke \knf==rskouauboebse+, // opuf mbdl pg dpotu efdmbsbukpo

   dpvu ?? + + ipvs AA 3    ipvs AA 45 , D 45 = ipvs ( 45 ,
      ?? #=# ?? tfugkmm+  3  , ?? tfu!+ 5 , ?? nkovuf
      ?? #=# ?? tfu!+ 5 , ?? tfdpoe ?? + ipvs ? 45 D # ET# = # YT# ,>
  // foe gvodukpo rskouauboebse
```

Mp; zm5427 qy'–iv–q–m' –[w \knf wj mk–' vww ldpotu wj mk– !blf]r ,tqy mA- ivl dpotu wj mk–oppo ,tqy mB-2c pmxzwoziu i—mu x–' –wqy?ws mvww ldpotu u mu j mz n; vk–qw' tfuMpvs ,tqy m57- ivl rskouauboebse ,tqy m64- ww –pmdpotu wj mk–oppo2Pv mikp ki'm0 –pmkwu xqmz omvmzi–m' iv mzwz u m''iom2c pmxzwoziu it'w qt; '–zi–m' –pm–pzmmw–pmz u mu j mzln; vk–qw lkitt kwu j qyi–qw' ww wj mk–' i vww ldpotu u mu j mz n; vk–qw ww i vww ldpotu wj mk–,tqy m55-0i dpotu u mu j mz n; vk–qw ww i vww ldpotu wj mk–,tqy m59- ivl i dpotu u mu j mz n; vk–qw ww i dpotu wj mk–,tqy m' 5A 5B-2c pmmzwz u m''iom' omvmzi–ml mwz vww ldpotu u mu j mz n; vk–qw' kittml ww i dpotu wj mk– izm'pw[v qy –pmw; –x; – [qyl w[2

```
2   // Ikh. 43.6= gkh43~36.drr
3   // Euufnrukoh up bddftt b dpotu pc fdu !kui opo2dpotu nfncfs gvodukpot.
4   %kodmvef #\knf.i# // kodmvef \knf dmbtt efgkokukpo
5
6   kou nbko+,
7
8      \knf !blf]r+ 91 781 3 ,> // opo2dpotubou pc fdu
9      dpotu \knf oppo+ 451 31 3 ,> // dpotubou pc fdu

21                             // XFOHL\      THTFHS I]UL\NXU
22     !blf]r.tfuMpvs+ 4; ,>   // opo2dpotu   opo2dpotu
23
24     oppo.tfuMpvs+ 45 ,>     // dpotu       opo2dpotu
25
26     !blf]r.hfuMpvs+,>       // opo2dpotu   dpotu
27
28     oppo.hfuTkovuf+,>       // dpotu       dpotu
29     oppo.rskou]okwfstbm+,> // dpotu       dpotu
2
31     oppo.rskouauboebse+,>  // dpotu       opo2dpotu
32    // foe nbko
```

p wyu z py' ks b b u vpsnwnww nykony

```
L={drriur:~f bnrmft{di43{Ikh43~34~36{gkh43~36.drr+46, = fssps L5995=
    \knf==tfuMpvs  = dboopu dpowfsu  uikt  rpkoufs gspn  dpotu \knf  up
    \knf )
        Lpowfstkpo mptft  vbmkgkfst
L={drriur:~f bnrmft{di43{Ikh43~34~36{gkh43~36.drr+53, = fssps L5995=
    \knf==rskouauboebse  = dboopu dpowfsu  uikt  rpkoufs gspn  dpotu \knf  up
    \knf )
        Lpowfstkpo mptft  vbmkgkfst
```

Ti b b u vpsnwnww nykony

```
gkh43~36.drr=46= fssps= rbttkoh  dpotu \knf  bt  uikt  bshvnfou pg
    wpke \knf==tfuMpvs+kou,  ektdbset  vbmkgkfst
gkh43~36.drr=53= fssps= rbttkoh  dpotu \knf  bt  uikt  bshvnfou pg
    wpke \knf==rskouauboebse+,  ektdbset  vbmkgkfst
```

sr l UQh dpotu –pytr o|s dpotu z tz pt u |r x–| 0

E kw’–z; k–wz u ; ’–j mi vw ldpotu u mu j mz n; vk–qw ,Mp254260tqy m’ 55 58-0j ; –q–ki v ’–qt j m; ’nh –wqy q–q tq”mi dpotu wj mk–,Mp254270tqy mB-2c pm\knf kw’–z; k–wz’–l mnl qy q–qw ,Mp254260tqy m’ 55 58- ’pw[’ –pi–q–ki tt’ i vw–pmz vw ldpotu u mu j mz n; vk–qw tfu\knf ,tqy m’ 5A 66- –w xmznwzu –pmqy q–q tq”i–qw wni \knf wj mk–2 Pv?ws qy o i vw 1 dpotu u mu j mz n; vk–qw mzwu –pmkw’–z; k–wz ki tt i’ xi z–wn–pmqy q–q tq”i–qw wni dpotu wj mk–q’ i ttw[nh 2c pm dpotuvm’ wni dpotu wj mk–q’ mv nwzkml mzwu –pm–qu m–pmkw 1 ’–z; k–wz kwu xtm–m’ qy q–q tq”i–qw wn–pmwj mk–; v–q –pi–wj mk–’–l m’–z; k–wz q’ ki ttml 2

Et’w0tqy m64 qy Mp25427 omv mzi–m’i kwu xqi–qw mzwz m?mv –pw; op u mu j mz n; vk–qw rskouauboebse wnkti’’ \knf l wm’ vw–u wl qi“ –pmwj mk–w [pqkp q–’–qy?ws ml 2c pmri k––pi–i u mu j mz n; vk–qw l wm’ vw–u wl qi“ i v wj mk–q’ vw–’; mqkqmv––w qy l qki–m–pi––pm n; vk–qw q’ kw’–i v–n; vk–qw –pmn; vk–qw u ; ’–*n vsp pzs*+j ml mkti zml dpotu2

aolulcnl lo c **1Dvy** *I cuz z i i lv c z i i aolulcnl i*

c pmxzwozi u wn Mp’25428 542 qy–zwl ; km’ ; ’qy o **——t- y yys y- s** 2 Ett l i–i u mu j mz’ *kt* j mqy q–q tq”ml ; ’qy o u mu j mz qy q–q tq”mz’ “v–i] 0j ; –dpotu l i–i u mu j mz’ ivl l i–i u mu j mz’ –pi–i zmzmmzmvkm’ ’*yz*j mqy q–q tq”ml ; ’qy o u mu j mz qy q–q tq”mz’ 2Si–mz qy –pq’ kpi x–mz0[mtt–’mm–pi–u mu j mz wj mk–’ u ; ’–j mqy q–q tq”ml –pq’ [i“ i’ [mtt2

```
// Ikh. 43.7= Nodsfnfou.i
// Gfgkokukpo pg dmbtt Nodsfnfou.
%kgoefg NULSHTHU\~M
%efgkof NULSHTHU\~M

dmbtt Nodsfnfou

rvcmkd=
   Nodsfnfou+ kou d A 31 kou k A 4 ,> // efgbvmu dpotusvdups

   // gvodukpo beeNodsfnfou efgkokukpo
   wpke beeNodsfnfou+,

      dpvou 0A kodsfnfou>
     // foe gvodukpo beeNodsfnfou

   wpke rskou+, dpotu> // rskout dpvou boe kodsfnfou
rskwbuf=
   kou dpvou>
   dpotu kou kodsfnfou> // dpotu ebub nfncfs
 > // foe dmbtt Nodsfnfou

%foekg
```

sr l UOj Nodsfnfou r–o stux|xx–| r–| ox|x|v |–|.dpotu so o z tz pt dpvou o|s dpotu so o z tz pt kodsfnfou0

```
// Ikh. 43.8= Nodsfnfou.drr
// Tfncfs2gvodukpo efgkokukpot gps dmbtt Nodsfnfou efnpotusbuf vtkoh b
// nfncfs kokukbmk fs up kokukbmk f b dpotubou pg b cvkmu2ko ebub u rf.
```

sr l UOl d tz pt x|xxo–x t ts –x|xxo–x t o r–| o| –uo p x–.x| so o t0(f o 3 –u40)

```
%kodmvef ?kptusfbnB
%kodmvef #Nodsfnfou.i# // kodmvef efgkokukpo pg dmbtt Nodsfnfou
vtkoh obnftrbdf tue>

// dpotusvdups
Nodsfnfou==Nodsfnfou+ kou d1 kou k ,
   = dpvou+ d ,1 // kokukbmk fs gps opo2dpotu nfncfs
     kodsfnfou+ k , // sf vksfe kokukbmk fs gps dpotu nfncfs

   // fnru  cpe
  // foe dpotusvdups Nodsfnfou

// rskou dpvou boe kodsfnfou wbmvft
wpke Nodsfnfou==rskou+, dpotu

   dpvu ?? #dpvou A # ?? dpvou ?? #1 kodsfnfou A # ?? kodsfnfou ?? foem>
  // foe gvodukpo rskou
```

sr l UCI d tz pt x|xxo-x t ts –x|xxo-x t o r–| o| –uo p x-.x| s o o t0(f o 4 –u40)

```
// Ikh. 43.9= gkh43~39.drr
// Ysphsbn up uftu dmbtt Nodsfnfou.
%kodmvef ?kptusfbnB
%kodmvef #Nodsfnfou.i# // kodmvef efgkokukpo pg dmbtt Nodsfnfou
vtkoh obnftrbdf tue>

kou nbko+,

   Nodsfnfou wbmvf+ 431 8 ,>

   dpvu ?? #Ffgpsf kodsfnfoukoh= #>
   wbmvf.rskou+,>

   gps + kou   A 4>   ?A 6>  00 ,

      wbmvf.beeNodsfnfou+,>
      dpvu ?? #Egufs kodsfnfou # ??   ?? #= #>
      wbmvf.rskou+,>
     // foe gps
  // foe nbko
```

```
Ffgpsf kodsfnfoukoh= dpvou A 431 kodsfnfou A 8
Egufs kodsfnfou 4= dpvou A 481 kodsfnfou A 8
Egufs kodsfnfou 5= dpvou A 531 kodsfnfou A 8
Egufs kodsfnfou 6= dpvou A 581 kodsfnfou A 8
```

sr l UCI b| –'x|v o| Nodsfnfou –pytr rskou o|s beeNodsfnfou z tz pt u |r x–| 0

c pmkw'–z; k–wz l mqy q–qw ,Mp2542 90tqy m' C 58- ; 'm' i ——t- y yys y- y –wqy ql –q tq"mkti'' Nodsfnfou—l i–i u mu j m' vw ldpotu qy–nom dpvou i vl dpotu qy–nom kodsfnfou ,l mkti zml qy tqy m' 5C 64 wn Mp2542 8-2T mu j m qy q–q tq"m' i x x miz j m–[mm i kw'–z; k–wz'—xi zi u m–m tq'– i vl –pmtm– j zi km–pi – j moqy' –pmkw'–z; k–wz'—j wl "2 c pm u mu j mz qvqqi tq"mz tq–,Mp25429 0tqvm 54 55- q ' mxizi–ml mzwu –pmxiziu mmz tq–[qp i kwtww ,=-2Likp u mu j mz qvqqi tq"mz kww'q– wn–pml i–i u mu j mz viu mnwtw[ml j " xizmv1 –pmm kww–iqvqvo –pmu mu j mz–qvqqi t ?it; m2Pv –pq mi u xtm0dpvou q qvqqi tq"ml [qp –pm ?it; mwnkww'–z; k–wz xiziu mmz divl kodsfnfou q qvqqi tq"ml [qp –pm?it; mwnkww'–z; k–wz xiziu mmz k2T ; t–qxtmu mu j mz qvqqi tq"mz' izm'mxizi–ml j " kwu u i'2Et'w0–pmu mu j mz qvql –qi tq"mz tq–mlnk; –m j mwzm–pmj wl " wn–pmkww'–z; k–wz mlnk; –m2

d(03 l -p wr swpp-swr m p-2l 0s(wUOlh

t bc u n z kt t uz n ul p pnl +kyypot nt z, yu pz 'yz n pt pzpksp. nl c nt k l kzk n nwu k skyy py l n skunl t bc, k n nwpt pzpksp. nw 'yz n 'ynl zu vun(pl n z n ut yzu zuw) pz z n pt pzpks (ks' n u z n l kzk n nw uwkt u n z u z n skyycg nyk n py zu n uwun nunt nyc

p sois tn Dui ulo us aolulcnl i c 1Dvy I cuc z i i lv co Dttl o iov

c pmxzwoziu wnMp'2542A 542Cqt; '–zi–m –pmkwu xqi–qw mzwz' ki; 'ml j " i–mu x–qvo–w qvqqi tq"mdpotu l i–i u mu j mz kodsfnfou [qp i v i''qvu mv–'–i–mu mv–,Mp2542B 0tqvm56- qv –pmNodsfnfou kww'–z; k–wz'–j wl " zi–pmz –piv [qp i u mu j mz qvqqi tq"mz2 Sqvm55 wn Mp2542B l wm vw–omv mzi–mi kwu xqi–qw mzwz0j nki; 'mdpvou q vw–l nkti zml dpotu2

P(v v (wb-(r -l v v swr --(- UOl

Tuz vun(pl pt o k n nwpt pzpksp. nw uwk t bc l kzk n nwpy k u vpskzput nuwnuc

d(03 l -p wr swpp-swr m p-2l 0s(wUOlj

ut yzkt z l kzk n nuy Mt bc u n zy kt l t bc (kupk snyVkt l l kzk n nuy l n skunl ky un nunt ny 'yz n pt pzpksp. nl) pz n nwpt pzpksp. nwy+t zk kyypot nt zy uwz nyn z+vny u l kzk pt z n ut yzu zuw ul +kun t uz kssu) nl c

```
// Ikh. 43.:= Nodsfnfou.i
// Gfgkokukpo pg dmbtt Nodsfnfou.
%kgoefg NULSHTHU\~M
%efgkof NULSHTHU\~M

dmbtt Nodsfnfou

rvcmkd=
   Nodsfnfou+ kou d A 31 kou k A 4 ,> // efgbvmu dpotusvdups

   // gvodukpo beeNodsfnfou efgkokukpo
   wpke beeNodsfnfou+,

      dpvou 0A kodsfnfou>
     // foe gvodukpo beeNodsfnfou

   wpke rskou+, dpotu> // rskout dpvou boe kodsfnfou
rskwbuf=
   kou dpvou>
```

sr l UOl Nodsfnfou r-o stux|xx–| r–| ox|x|v |–|.dpotu sooztz pt dpvou o|s dpotu sooztz pt kodsfnfou0(fo 3 –u40)

```
   dpotu kou kodsfnfou> // dpotu ebub nfncfs
 > // foe dmbtt Nodsfnfou

%foekg
```

sr l UCI Nodsfnfou r⊖ stux|xx┼ r┼ ox|x|v |┼.dpotu so o z tz pt dpvou o|s dpotu so o z tz pt kodsfnfou0(f o 4 ⊸u40)

```
// Ikh. 43.;= Nodsfnfou.drr
// Hsspofpvt buufnru up kokukbmk f b dpotubou pg b cvkmu2ko ebub
// u rf c  bttkhonfou.
%kodmvef ?kptusfbnB
%kodmvef #Nodsfnfou.i# // kodmvef efgkokukpo pg dmbtt Nodsfnfou
vtkoh obnftrbdf tue>

// dpotusvdups> dpotubou nfncfs  kodsfnfou  kt opu kokukbmk fe
Nodsfnfou==Nodsfnfou+ kou d1 kou k ,

   dpvou A d> // bmmp!fe cfdbvtf dpvou kt opu dpotubou
   kodsfnfou A k> // HSSXS= Lboopu npekg  b dpotu pc fdu
  // foe dpotusvdups Nodsfnfou

// rskou dpvou boe kodsfnfou wbmvft
wpke Nodsfnfou==rskou+, dpotu

   dpvu ?? #dpvou A # ?? dpvou ?? #1 kodsfnfou A # ?? kodsfnfou ?? foem>
  // foe gvodukpo rskou
```

sr l UCI T ┼t— o tz ⟶x|xx⊖x t o r┼ o| ⊸u o p x-.x| so o t p o xv|z t| 0

```
// Ikh. 43.<= gkh43~3<.drr
// Ysphsbn up uftu dmbtt Nodsfnfou.
%kodmvef ?kptusfbnB
%kodmvef #Nodsfnfou.i# // kodmvef efgkokukpo pg dmbtt Nodsfnfou
vtkoh obnftrbdf tue>

kou nbko+,

   Nodsfnfou wbmvf+ 431 8 ,>

   dpvu ?? #Ffgpsf kodsfnfoukoh= #>
   wbmvf.rskou+,>

   gps + kou   A 4>   ?A 6>  00 ,

      wbmvf.beeNodsfnfou+,>
      dpvu ?? #Egufs kodsfnfou # ??   ?? #= #>
      wbmvf.rskou+,>
     // foe gps
  // foe nbko
```

sr l UCI f ⊸v oz —t r⊖ Nodsfnfou vt |t o t r⊸z x⊖ x┼ t —0(f o 3 ⊸u40) *p wyu z py' ks b b u vpsnwnwow nykony*

```
L={drriur:~f bnrmft{di43{Ikh43~3:~3<{Nodsfnfou.drr+43, = fssps L5:8;=
    Nodsfnfou==kodsfnfou  = nvtu cf kokukbmk fe ko dpotusvdups cbtf/nfncfs
   kokukbmk fs mktu
       L={drriur:~f bnrmft{di43{Ikh43~3:~3<{kodsfnfou.i+53, = tff
          efdmbsbukpo pg  Nodsfnfou==kodsfnfou
L={drriur:~f bnrmft{di43{Ikh43~3:~3<{Nodsfnfou.drr+45, = fssps L5499=
   m2wbmvf trfdkgkft dpotu pc fdu
```

Ti b b u vpsnwnwow nykony

```
Nodsfnfou.drr=<= fssps= vokokukbmk fe nfncfs  Nodsfnfou==kodsfnfou  !kui
    dpotu  u rf  dpotu kou
Nodsfnfou.drr=45= fssps= bttkhonfou pg sfbe2pom  ebub2nfncfs
    Nodsfnfou==kodsfnfou
```

sr I UOI f –v oz —t r-o Nodsfnfou vt|t o t r–z x-o x–|t —0(f o 4 –u40)

M; vk–qw rskou ,Mp2542B0tqm 5: 5G q l nkti zml dpotu2P–u qpp–'mmu '–zi vom–w ti j mt–pq n, vk–qw dpotu0j nki ; 'mi xzwozi u xzwj i j t" [qt vm?mz pi ? mi dpotu Nodsfnfou wj rnk–2Ow[m?mz0q–'–xw''q tm–pi – i xzwozi u [qt pi ? mi dpotu zmmzmvkm–wi v Nodsfnfou wj rnk– wz i xwqy–mz –w dpotu –pi – xwqy–' –wi v Nodsfnfou wj rnk–2c "xqki tt"0–pq wkk; z' [pmv wj rnk–' wn kti '' Nodsfnfou i zmxi ''ml –w n, vk–qw' wz zm–; zvml mwu n, vk–qw'2Pv –pmmki 'm0wwt" kti '' Nodsfnfou–'–dpotu u mu j mz n, vk–qw' ki v j mki ttml –pzw, op –pmzml mzmvkmwz xwqy–mz2c p; '0q–'–zmi 'wi j tm–wl nkti zmn, vk–qw rskou i ' dpotu l wqyo 'wxzml ? mv–' mzzwz' qy –pmm'q–; i –qw' [pmzmi v Nodsfnfou wj rnk–q –zmi–ml i ' i dpotu wj rnk–2

--(-Cb-p2pw0s(we s) UOIU

Dn skunky t bc kss u k skyyG n nw ' t zputyz kzl u t uz ul p +z nu nzpt) p z n+uwnukznc U kyput kss+z py k+ymn pt kvvuwupkzn, n k' yn+u' Gs k(n t u pt znt zput u urkzpt o t bc u nzy u z kz skyy uwk nyypt o u nzy u z kz skyy z uu' o t bc un-munt nyuwvupt znyzu t bcc Dn skupt o y' n nw ' t zput y t bc l unyu nwk nt npz, z u' o cNz n n nw ' t zput pyptkl (nuznt zs+) upzznt zu ul p +z nu n z, z n u vpsnw) pss pyy' n kt nwow nykonc

UOIh P(v) (. s0s(w mpn0. l . pv mp-. (Pul . . p.

Ev EmbsnLmpdl wj rnk–vmml ' –ws vw[[pmv q–'–'; xxw'ml –w'w, vl q–' i ti zu 0'w[p" vw–qy kt; l mi \knf wj rnk–i ' i u mu j mz wn–pm EmbsnLmpdl kti '' b; kp i ki xi j qq–" q ki ttml **u — yy** i vl q 'wu m–qu m zmmzml –wi ' i ***ctH* - s y xy** i kti '' ki v pi ? mwj rnk–' wn w–pmz kti ''m i ' u mu j mz'2

d(03 l -p wr swpp-swr m p-2l 0s(wUOI

u ut uw u yu z) kunun' yk pspz+py u vuypzput , pt) p k skyy ky u nzy u uz nw skyyny ky n nuyc

f pmv i v wj rnk–q kzmi–ml 0q–' kw'–z; k–wz q ki ttml i ; –wu i–qki tt"2Wzm?qw, 't"0[m'i [pw[–wxi '' i zo; u mv–' –w–pmkw'–z; k–wz wn i v wj rnk–[mkzmi–ml qy nbko2c pq 'nk–qw 'pw[' pw[i v wj rnk–'–kw'–z; k–wz ki v xi '' i zo; u mv–' –wu mu j mzlwj rnk–kw'–z; k–wz' ? q u mu j mz qy q–q tq'mz'2

d(03 l -p wr swpp-swr m p-2l 0s(wUOl

n nw u n zy kun ut yzù znl pt z n uub nw pt) p z n+Gun l n skunl pt z n skyy l n pt pzput Mluz pt z n uub nwz n+Gun spyznl pt z n ut yzù zuuGr n nwpt pzpksp. nwspyzVkt l n uun z npwnt suypt o skyy u n zy Myu nzp ny kssnl ***stvs ieut****Vkun ut yzù znl c*

c pmv m]–xzwozi u ;'m̀ kti''m̀ Gbuf ,Mdp'254254 54255- i vl Hnrmp ff ,Mdp'254256 54257- –w l mu ww'–zi–mkwu xw'q–qw 2 Hti'' Hnrmp ff–'–l mmy q–qw ,Mdp254256- kw–i qy' rskwbuf l i–i u mu j mz' gkstuUbnf0mbtuUbnf0cksuiGbuf ivl iksfGbuf2T mu j mz' cksui2 Gbuf ivl iksfGbuf izmdpotu wj mk–' wnkti'' Gbuf, [pdkp kw–i qy' rskwbuf l i–i u mu j mz' npoui0eb ivl fbs2c pmHnrmp ff kw'–z; k–wz–'–pmil mz ,Mdp254257 0tqy m̀ 54 55- 'xmkql mqm̀ –pi––pmkw'–z; k–wz pi' nw; zxizi u m–mz' ,gkstu0mbtu0ebufXgFksui ivl ebufXgMksf-2 c pmmq'––[wxizi u m–mz' izmxi''mh ?q u mu j mz qy q–q tq''mz' –w–pmtuskoh kti'' kw'–z; k–wz2 c pmti'––[wizmxi''mh ?q u mu j mz qy q–q tq''mz' –w–pmGbuf kti'' kw'–z; k–wz2

```
// Ikh. 43.43= Gbuf.i
// Gbuf dmbtt efgkokukpo> Tfncfs gvodukpot efgkofe ko Gbuf.drr
%kgoefg GE\H~M
%efgkof GE\H~M

dmbtt Gbuf

rvcmkd=
   tubukd dpotu kou npouitYfsxfbs A 45> // ovncfs pg npouit ko b  fbs
   Gbuf+ kou A 41 kou A 41 kou A 4<33 ,> // efgbvmu dpotusvdups
   wpke rskou+, dpotu> // rskou ebuf ko npoui/eb / fbs gpsnbu
    Gbuf+,> // rspwkefe up dpogksn eftusvdukpo psefs
rskwbuf=
   kou npoui> // 4245 +Obovbs 2Gfdfncfs,
   kou eb > // 4264 cbtfe po npoui
   kou  fbs> // bo   fbs

   // vukmku  gvodukpo up difdl kg eb  kt rsprfs gps npoui boe  fbs
   kou difdlGb + kou , dpotu>
 > // foe dmbtt Gbuf

%foekg
```

sr l UOlUO Gbuf r-o stux|xx–|–0

```
// Ikh. 43.44= Gbuf.drr
// Gbuf dmbtt nfncfs2gvodukpo efgkokukpot.
%kodmvef ?kptusfbnB
%kodmvef #Gbuf.i# // kodmvef Gbuf dmbtt efgkokukpo
vtkoh obnftrbdf tue>

// dpotusvdups dpogksnt rsprfs wbmvf gps npoui> dbmmt
// vukmku  gvodukpo difdlGb  up dpogksn rsprfs wbmvf gps eb
```

sr l UOlUU Gbuf r-o z tz pt .u |r x–| stux|xx–| 0(f o 3 –u40)

```
Gbuf==Gbuf+ kou no1 kou e 1 kou  s ,

   kg + no B 3 )) no ?A npouitYfsxfbs , // wbmkebuf uif npoui
      npoui A no>
   fmtf

      npoui A 4> // kowbmke npoui tfu up 4
      dpvu ?? #Nowbmke npoui +# ?? no ?? #, tfu up 4.{o#>
     // foe fmtf

    fbs A  s> // dpvme wbmkebuf  s
   eb  A difdlGb + e  ,> // wbmkebuf uif eb

   // pvurvu Gbuf pc fdu up tip! !ifo kut dpotusvdups kt dbmmfe
   dpvu ?? #Gbuf pc fdu dpotusvdups gps ebuf #>
   rskou+,>
   dpvu ?? foem>
  // foe Gbuf dpotusvdups

// rskou Gbuf pc fdu ko gpsn npoui/eb / fbs
wpke Gbuf==rskou+, dpotu

   dpvu ?? npoui ??  /  ?? eb  ??  /  ??  fbs>
  // foe gvodukpo rskou

// pvurvu Gbuf pc fdu up tip! !ifo kut eftusvdups kt dbmmfe
Gbuf== Gbuf+,

   dpvu ?? #Gbuf pc fdu eftusvdups gps ebuf #>
   rskou+,>
   dpvu ?? foem>
  // foe  Gbuf eftusvdups

// vukmku  gvodukpo up dpogksn rsprfs eb  wbmvf cbtfe po
// npoui boe  fbs> iboemft mfbr  fbst1 upp
kou Gbuf==difdlGb + kou uftuGb  , dpotu

   tubukd dpotu kou eb tYfsTpouiz npouitYfsxfbs 0 4 | A
        31 641 5;1 641 631 641 631 641 641 631 641 631 64  >

   // efufsnkof !ifuifs uftuGb  kt wbmke gps trfdkgkfe npoui
   kg + uftuGb  B 3 )) uftuGb  ?A eb tYfsTpouiz npoui | ,
      sfuvso uftuGb >

   // Ifcsvbs  5< difdl gps mfbr  fbs
   kg + npoui AA 5 )) uftuGb  AA 5< )) +  fbs ( 733 AA 3
      +  fbs ( 7 AA 3 ))  fbs ( 433 "A 3 , , ,
      sfuvso uftuGb >

   dpvu ?? #Nowbmke eb  +# ?? uftuGb  ?? #, tfu up 4.{o#>
   sfuvso 4> // mfbwf pc fdu ko dpotktufou tubuf kg cbe wbmvf
  // foe gvodukpo difdlGb
```

sr I UaUU Gbuf r-o z tz pt .u |r x+ stu|xx+ 0(fo 4 -u40)

```
// Ikh. 43.45= Hnrmp ff.i
// Hnrmp ff dmbtt efgkokukpo tip!koh dpnrptkukpo.
// Tfncfs gvodukpot efgkofe ko Hnrmp ff.drr.
%kgoefg HTYRXxHH~M
%efgkof HTYRXxHH~M

%kodmvef ?tuskohB
%kodmvef #Gbuf.i# // kodmvef Gbuf dmbtt efgkokukpo
vtkoh obnftrbdf tue>

dmbtt Hnrmp ff

rvcmkd=
   Hnrmp ff+ dpotu tuskoh )1 dpotu tuskoh )1
      dpotu Gbuf )1 dpotu Gbuf )  ,>
   wpke rskou+, dpotu>
    Hnrmp ff+,> // rspwkefe up dpogksn eftusvdukpo psefs
rskwbuf=
   tuskoh gkstuUbnf> // dpnrptkukpo= nfncfs pc fdu
   tuskoh mbtuUbnf> // dpnrptkukpo= nfncfs pc fdu
   dpotu Gbuf cksuiGbuf> // dpnrptkukpo= nfncfs pc fdu
   dpotu Gbuf iksfGbuf> // dpnrptkukpo= nfncfs pc fdu
 > // foe dmbtt Hnrmp ff

%foekg
```

sr I UOIUf Hnrmp ff r-o stux|xx+ w—x|v r-z —xx+0

```
// Ikh. 43.46= Hnrmp ff.drr
// Hnrmp ff dmbtt nfncfs2gvodukpo efgkokukpot.
%kodmvef ?kptusfbnB
%kodmvef #Hnrmp ff.i# // Hnrmp ff dmbtt efgkokukpo
%kodmvef #Gbuf.i# // Gbuf dmbtt efgkokukpo
vtkoh obnftrbdf tue>

// dpotusvdups vtft nfncfs kokukbmk fs mktu up rbtt kokukbmk fs
// wbmvft up dpotusvdupst pg nfncfs pc fdut
Hnrmp ff==Hnrmp ff+ dpotu tuskoh )gkstu1 dpotu tuskoh )mbtu1
   dpotu Gbuf )ebufXgFksui1 dpotu Gbuf )ebufXgMksf ,
   = gkstuUbnf+ gkstu ,1 // kokukbmk f gkstuUbnf
     mbtuUbnf+ mbtu ,1 // kokukbmk f mbtuUbnf
     cksuiGbuf+ ebufXgFksui ,1 // kokukbmk f cksuiGbuf
     iksfGbuf+ ebufXgMksf , // kokukbmk f iksfGbuf

   // pvurvu Hnrmp ff pc fdu up tip! !ifo dpotusvdups kt dbmmfe
   dpvu ?? #Hnrmp ff pc fdu dpotusvdups= #
      ?? gkstuUbnf ??     ?? mbtuUbnf ?? foem>
  // foe Hnrmp ff dpotusvdups

```

sr I UOIUh Hnrmp ff r-o z tz pt .u |r x+ stux|xx+ -x|r-sx|v r+ r — xwoz tz pt x|xxo-x t -x 0(fo 3 -u40)

```
33  // rskou Hnrmp ff pc fdu
34  wpke Hnrmp ff==rskou+, dpotu
35
36     dpvu ?? mbtuUbnf ?? #1 # ?? gkstuUbnf ?? #  Mksfe= #>
37     iksfGbuf.rskou+,>
38     dpvu ?? #  Fksuieb = #>
39     cksuiGbuf.rskou+,>
3      dpvu ?? foem>
41   // foe gvodukpo rskou
42
43  // pvurvu Hnrmp ff pc fdu up tip! !ifo kut eftusvdups kt dbmmfe
44  Hnrmp ff== Hnrmp ff+,
45
46     dpvu ?? #Hnrmp ff pc fdu eftusvdups= #
47        ?? mbtuUbnf ?? #1 # ?? gkstuUbnf ?? foem>
48   // foe  Hnrmp ff eftusvdups
```

sr l UOlUh Hnrmp ff r-o z tz pt .u |r x–┼ stu|xx–┼ -x|r– sx|v r–┼ r — xwoz tz pt x|xxo-x t -x 0(f o 4 –u40)

tEsD nn ms otv ews Bz i i aoludcrl i y ltv

c pmkwtww ,=- nwttw[qyo –pmkww'–z; k–wz'—pmil mz ,Mqp2542570tqym56- j moqy' –pmu mu j mz qyq–qi tq"mz tq–2c pmu mu j mz qyq–qi tq"mz' 'xnkqn" –pmHnrmp ff kww'–z; k–wz xiziu m–mz' j moqyo xi''mh –w–pmkww'–z; k–wz' wn–pmtuskoh ivl Gbuf l i–i u mu j mz'2Wziu m–mz' gkstu0mbtu0 ebufXgFksui ivl ebufXgMksf izmxi''mh –w –pmkww'–z; k–wz' nwz wj rnk–' gkstuUbnf'— ,Mqp2542570tqym56-0mbtuUbnf ,Mqp2542570tqym57-0cksuiGbuf ,Mqp2542570tqym58- ivl iksfGbuf ,Mqp2542570tqym59-0zm'xnk–q' mu"2Eoiqy0u mu j mz qyq–qi tq"mz' izm'mxizi–mh j " kwu u i'2

i n mmcttB I i c nvms ms otv ews

E' "w; '–; l " kti'' Gbuf ,Mqp254254-0vw–qkm–pi––pmkti'' l wm' vw–xzw?q mi kww'–z; k–wz –pi–znkmq' m' i xiziu m–mz wn–"xmGbuf2bw0[p" kiv –pmHnrmp ff kww'–z; k–wz'—u mu j mz qyq–qi tq"mz tq–qyq–qi tq"m–pmcksuiGbuf ivl iksfGbuf wj rnk–' j " xi''qyo Gbuf wj rnk–'—w –pmqz Gbuf kww'–z; k–wz' E' [mu mr–qwnh qy Hpix–mz C0–pmkwu xqmz xzw?q m' mikp kti'' [q–p i l mi ; t–kwx" kww'–z; k–wz –pi–kwxqm' mikp l i–i u mu j mz wn–pmkww'–z; k–wz'—izo; 1 u mr–wj rnk–qy–w–pmkwzzm'xwl qyo u mu j mz wn–pmwj rnk–j moqyo qyq–qi tq"mh 2Hpix–mz 55 l q'k; ''m' pw["w; kiv l moqy mk; '–wu q"mh kwx" kww'–z; k–wz'2

itulo mmcttit i n co tEsD nn

Mqp; zm54258 kzmi–m' –[wGbuf wj rnk–' ,tqym' C 54- ivl xi''m' –pmu i' izo; u mr–' –w–pm kww'–z; k–wz wn–pmHnrmp ff wj rnk–kzmi–mh qy tqym552Sqym58 w; –x; –' –pmHnrmp ff wj 1 rnk–'—l i–i 2f pmr mikp Gbuf wj rnk–q' kzmi–mh qy tqym' C 540–pmGbuf kww'–z; k–wz l moqymh qy tqym' C 6: wn Mqp254255 l q'xti "' i tqymwn w; –x; ––w'pw[–pi––pmkww'–z; k–wz [i' kittmh ,'mm–pmmqz'––[w tqym' wn–pm'iu xtmw; –x; –2 *Tuzn* Sqym55 wn Mqp254258 ki ; 'm' –[will q–qwit Gbuf kww'–z; k–wz kitt' –pi–l wvw–ixxmiz qy –pmxzwoziu '—w; –x; –2f pmr mikp wn–pmHnrmp ff'—Gbuf u mu j mz wj rnk–'—q' qyq–qi tq"mh qy –pmHnrmp ff kww'–z; k–wz'— u mu j mz qyq–qi tq"mz tq–,Mqp2542570tqym' 58 59-0–pml mi ; t–kwx" kww'–z; k–wz nwz kti'' Gbuf q' kittmh 2bqykm–pq' kww'–z; k–wz q' l moqymh qu xtqkq–t" j " –pmkwu xqmz0q–l wm' vw– kww–iqy iv" w; –x; –'–i–mu mr–' –wl mu ww'–zi–m[pmr q–'—kittmh 2

```
// Ikh. 43.47= gkh43~47.drr
// Gfnpotusbukoh dpnrptkukpo22bo pc fdu !kui nfncfs pc fdut.
%kodmvef ?kptusfbnB
%kodmvef #Hnrmp ff.i# // Hnrmp ff dmbtt efgkokukpo
vtkoh obnftrbdf tue>

kou nbko+,

    Gbuf cksui+ :1 571 4<7< ,>
    Gbuf iksf+ 61 451 4<;; ,>
    Hnrmp ff nbobhfs+ #Fpc#1 #Fmvf#1 cksui1 iksf ,>

    dpvu ?? foem>
    nbobhfs.rskou+,>

    dpvu ?? #{o\ftu Gbuf dpotusvdups !kui kowbmke wbmvft={o#>
    Gbuf mbtuGb Xgg+ 471 681 4<<7 ,> // kowbmke npoui boe eb
    dpvu ?? foem>
   // foe nbko
```

```
Gbuf pc fdu dpotusvdups gps ebuf :/57/4<7<
Gbuf pc fdu dpotusvdups gps ebuf 6/45/4<;;
Hnrmp ff pc fdu dpotusvdups= Fpc Fmvf

Fmvf1 Fpc  Mksfe= 6/45/4<;;  Fksuieb = :/57/4<7<

\ftu Gbuf dpotusvdups !kui kowbmke wbmvft=
Nowbmke npoui +47, tfu up 4.
Nowbmke eb  +68, tfu up 4.
Gbuf pc fdu dpotusvdups gps ebuf 4/4/4<<7

Gbuf pc fdu eftusvdups gps ebuf 4/4/4<<7
Hnrmp ff pc fdu eftusvdups= Fmvf1 Fpc
Gbuf pc fdu eftusvdups gps ebuf 6/45/4<;;
Gbuf pc fdu eftusvdups gps ebuf :/57/4<7<
Gbuf pc fdu eftusvdups gps ebuf 6/45/4<;;
Gbuf pc fdu eftusvdups gps ebuf :/57/4<7<
```

i wt t o t or o— ux t r—┼ r —
ro— wt | o| Hnrmp ff x
r—┼ r ts —ro— —wt
tuskoh r-o r—┼ r —(-x|t
34 35 —uUxv032035)- —ro— —wt
Gbuf r-o stuo – r—
r—┼ r —(-x|t 3: 3A—u
Uxv032035) o|s wt ro— —wt
Hnrmp ff r-o r—┼ r —0

sr l UaUj Ptz —┼ o x|v r—z —xx—┼ o| —pytr xwz tz pt —pytr 0

Hti’’ Gbuf ivl kti’’ Hnrmp ff mikp qvkt; l mi l m’–z; k–wz ,tqvm’ 79 84 wnMp254255 ivl tqvm’77 7AwnMp2542570zm’xnk–q’nt“- –pi –xzqv–’ i u m’iom[pmv iv wj mk–wnq–’ kti’’ q’ l m’–z; k–nl 2c pq’ mvij tm’ ; ’ –w kwwnqu qv –pmxzwoziu w; –x; – –pi – wj mk–’ izmkww1 ’–z; k–nl nzwu –pm*pt ypl nu’ z* ivl l m’–zw“nl qv –pmzm:m’mwzl mz0nzwu –pm*u’ zypl npt* ,q2m20–pm Gbuf u nu j mz wj mk–’ izml m’–zw“nl i n–mz –pmHnrmp ff wj mk– –pi –kww–iqv’ –pmu -2Uw–qkm –pmti’–nw; z tqvm’ qv –pmw; –x; –wnMp2542582c pmti’–[wtqvm’ izm–pmw; –x; –’ wn–pmGbuf l m’–z; k–wz z; vvqv o ww Gbuf wj mk–’ iksf ,tqvm54- ivl cksui ,tqvmC-0zm’xnk–q’nt“2c pm’m w; –x; –’ kwwnqu –pi– –pm–pznmwj mk–’ kzmi–nl qv nbko izml m’–z; k–nl qv –pm*un(nuyn* wn–pm wzl mz qv [pqkp –pm“ [nzmkww’–z; k–nl 2c pmHnrmp ff l m’–z; k–wz w; –x; –q’ nq’mtqvm’ nzwu –pmj w–wu 2c pmnw; z–p ivl –pqzl tqvm’ nzwu –pmj w–wu wn–pmw; –x; –[qvl w[’pw[–pm l m’–z; k–wz’ z; vvqv o nwz –pmHnrmp ff–’u nu j mz wj mk–’ iksfGbuf ,Mp2542560tqvm66- ivl cksuiGbuf ,Mp2542560 tqvm65-2 c pm’m w; –x; –’ kwwnqu –pi– –pmHnrmp ff wj mk– q’ l m’–z; k–nl nzwu –pm*u’ zypl npt* q2m20–pmHnrmp ff l m’–z; k–wz z; v’ nq’–,w; –x; –’pw[v nq’m tqym̀ nzwu –pmj w—wu wn-pmw; -x; – [qyl w[-0-pmr -pmu mu j mz wj rmk–' izml m̀-z; k-ml qy –pmuw(nqyn uwb nwnzwu [pqkp -pm" [mzmkww'-z; k-ml 2 Hti'' tuskoh–'–l m̀-z; k-wz l wm̀ vw–kw-i qy w; -x; – '-i-mu mr-'0'w[ml wvw–'mm-pmgkstuUbnf ivl mbtuUbnf wj rmk–' j mqyo l m̀-z; k-ml 2Eoi qy0Mqp254258–'–w; -x; –l d vw–'pw[-pmkww'-z; k-wz' z; vvqyo nwz u mu j mz wj rmk–' cksuiGbuf ivl iksfGbuf0j mki ; 'm-pm̀mwj rmk–' [mzmqy qqi tq'ml [qp -pml mi ; t–Gbuf kti'' kwx" kww'-z; k-wz' xzw?d ml j " -pmkwu xqmz2

cvuc iot io aI s sv ti v i z i i aolulcrl i yltuh

Phi u mu j mz wj rmk–d vw–qy qqi tq'ml -pzw; op i u mu j mz qy qqi tq'mz0-pmu mu j mz wj rmk–'–l ml ri ; t– kww'-z; k-wz [qt j mki ttml qu xtqkqt"2 e i t; m̀0qp i v"0m̀-i j tq pml j " -pml mi ; t– kww 1 '-z; k-wz ki v j mw?mzd l mr j " ynz n vk-qyw'2 Ow[m̀mz0 nwz kwu xtml qy qqi tq'i-qyw 0 -pq i xxzwi kp u i " zmy; qm'qpvqqki v–i l l qqwi t [wzs ivl -qu m2

P(v v (wb-(r-l v v swr --(- UOI

u vpskzput nuowuu 'uyp k n nwu n zpyt uzpt pzpksp nl) pz k n nwpt pzpksp nw kt l z n n nwu n zGr skyy l uny t uz vuu(pl n k l n k' sz ut yzù zuwMnc, z n n nwu - n zGr skyy l n pt ny ut n uw uun ut yzù zuy, ' z t ut n py k l n k' sz ut yzù zuuV

bp- (-v l wnp e s) UOIf

N pzpksp n n nwu n zy n vsp pz+z uu' o n nwpt pzpksp nyc g pynsp pt kzyz nu(nu nkl u l u' s+ pt pzpksp pt o n nwu n zy ut n) nt z n n nwu n zGr l n k' sz ut yzù zuwpy kssnl kt l kokpt) nt 'm- ' t zput y kun kssnl pt z n ut yzù zuw ul + Nw skznuVzu pt pzpksp n z n n nwu n zc

d(03 l-p wr swpp-swr m p-2l 0s(wUOI

N k skyy n nwpy kt u n z u kt uz nw skyy, krpt o z kz n nwu n z r l uny t uz(puskznz n nt kvy' skzput kt l pl pt o u z kz n nwu n zGr .r ico n nyc B' z, pz l uny (puskznz n nt kvy' skzput kt l pl pt o u z n ut zkpt pt o skyGp vsn nt zkzput , yu n nwu n zy u skyy z+wny y u' sl yzpss n .r ico, sprn kss uz nwl kzk n nyc

UOIj rifh l wn0s(w. l wo rifh Pu l . . p.

E **rifh E u y** wni kti'' q l mqyml w; -'d m-pi –kti''–'–'kwx m0"m-pi ' -pmzqpp––wi kkm' -pmvw lrvcmkd ,ivl rvcmkd- u mu j mz' wn-pmkti''2b-i vl i tww mn vk-qyw'0mr-qmkti''m̀ wz u mu j mz n vk-qyw' wnw-pmz kti''m̀ u i " j ml mkti zml -wj mzqmvl ' wni vw-pmz kti''2

d 'qyo gskfoe n vk-qyw' ki v mpi vkmxmzwzu i vkm2c pq 'mk-qyw xzm̀mr-' i u mkpi vqki t m]i u xtmwnpw[i gskfoe n vk-qyw [wzs '2Si-mz qy -pmj wws 0gskfoe n vk-qyw' izm; 'ml -w w?mztwi l wxmzi-wz' nwz ; 'm[qp kti'' wj rmk–' ,Hpi x-mz 55- i vl -w kzmi-mqmzi-wz kti''m̀ ,Hpi x-mz 640I i–i b-z; k-; zm̀-2Vj rmk–' wni v qmzi-wz kti'' ki v '; kkm̀'q mr" 'mmk-qmu ' wz xmzwzu i v wxmzi-qyw ww qmu ' qy i kww-i qy mz kti'' wj rmk-2Vj rmk–' wnkww-i qy mz kti''m̀ ki v '-wzmqmu '2d 'qyo mzqmvl ' q wn-mr i xxzwzq-m[pmr i u mu j mz n vk-qyw ki vvw-j m; 'ml nwz kmz-i qy wxmzi-qyw' 0i ' [mtt-'mmqy Hpi x-mz 552

c wl mkti zmi n vk-qyw i ' i mzqmvl wni kti''0xzmkml m-pmn vk-qyw xzw-w-"xmqy -pmkti'' l mqy qqw [qp s m̀[wzl gskfoe2c wl mkti zmi tt u mu j mz n vk-qyw' wn kti'' Lmbtt\!p i ' mzqmvl ' wn kti'' LmbttXof0xti kmi l mkti zi-qyw wn-pmnwzu

```
gskfoe dmbtt Lmbtt\!p>
```

qy -pml mqy qqw wnkti'' LmbttXof2

d(03 l -p wr swpp-swr m p-2l 0s(wUOI

(nt z u'o z nvuzuz+vny uw .ro 't zputy kvvnkupt z n skyyl npt pzput , upnt l y kun t uz n nw 't zput yc

d(03 l -p wr swpp-swr m p-2l 0s(wUOI

n nwk nyy t uzput y u .r ico, .tco co kt l r kun t uz unsn(kt z zu .ro l n skukzput y, yu .ro l n skukzput y kt n vsk nl kt +) nunpt k skyyl npt pzput c

((o b-(r -l v v swr b-l n0snp UOIU

ask nkss upnt l y pv l n skukzput y puyz pt ypl n z n skyyl npt pzput G ul +kt l l u t uz vun nl n z n) pz kt +k nyy yvn p pnuc

Mzqnvl 'pqx q̓ ozi v–nl 0vw––i s mr q2n20 nwz kti'' F –wj mi gskfoe wnkti'' E0kti'' E u ; '–mlxtqkq+" l nktizm–pi –kti'' F q̓ q–̓ gskfoe2 Et'w0–pmnzqnvl 'pqx znti–qw q̓ vnq+pnz '"u u nzqk vwz –zi v'q+q̓ m q2n20qnkti'' E q̓ i gskfoe wnkti'' F0i vl kti'' F q̓ i gskfoe wn kti'' H0"w; ki vvw–qvnz –pi –kti'' F q̓ i gskfoe wnkti'' E ,ioi qv0nzqnvl 'pqx q̓ vw–'"u 1 u nzqk-0–pi –kti'' H q̓ i gskfoe wnkti'' F ,it'wj nki ; 'mnzqnvl 'pqx q̓ vw–'"u u nzqk-0wz –pi –kti'' E q̓ i gskfoe wnkti'' H ,nzqnvl 'pqx q̓ vw––zi v'q+q̓ m2

d(03 l -p wr swpp-swr m p-2l 0s(wUOIUO

eu nvnuwsnpt z n UUa u 'tpz+ nns z kz upnt l y pv uuẁ vzy pt uw kzput pl pt o kt l) nkrnt y z n (ks'n u z n u n z-uupnt znl l nypot kvvunk c N z py zn z,) n pl nt zp + yn(nuks n k vsny u z nunyvut yp sn'yn u upnt l y pvc

z s l lo c mnctt3 Efr i n I cw lv c q lio q oeudso

Mop; zm5 4259 q̓ i u nkpi vqkit nliu xtnqv [pqkp [ml nnqv mgskfoe n; vk–qw tfuq –w'm––pm rskwbuf l i–i u nu j nz wnkti'' Lpvou2 c pmgskfoe l nkti zi–qw ,tqv mG- i xxniz' nq'–,j " kww? nv–qw- qv –pmkti'' l nnqv q+qw 0 n?nv j nnwzmrvcmkd u nu j nz n; vk–qw' izml nkti znl 2 Eoi qv 0–pq̓ gskfoe l nkti zi–qw ki v i xxniz i v"[pnznqv –pmkti''2

```
// Ikh. 43.48= gkh43~48.drr
// Iskfoet dbo bddftt rskwbuf nfncfst pg b dmbtt.
%kodmvef ?kptusfbnB
vtkoh obnftrbdf tue>

// Lpvou dmbtt efgkokukpo
dmbtt Lpvou

   gskfoe wpke tfuq+ Lpvou )1 kou ,> // gskfoe efdmbsbukpo
rvcmkd=
   // dpotusvdups
   Lpvou+,
      =  + 3 , // kokukbmk f   up 3

      // fnru  cpe
     // foe dpotusvdups Lpvou

```

---

sr l UOIU Iskfoe ro| orrt rskwbuf z tz pt –uor–o 0(fo 3 –u40)

```
29      // pvurvu
2       wpke rskou+, dpotu
31
32         dpvu ??   ?? foem>
33        // foe gvodukpo rskou
34   rskwbuf=
35      kou   > // ebub nfncfs
36    > // foe dmbtt Lpvou
37
38   // gvodukpo tfuq dbo npekg  rskwbuf ebub pg Lpvou
39   // cfdbvtf tfuq kt efdmbsfe bt b gskfoe pg Lpvou +mkof <,
3    wpke tfuq+ Lpvou )d1 kou wbm ,
41
42      d.  A wbm> // bmmp!fe cfdbvtf tfuq kt b gskfoe pg Lpvou
43     // foe gvodukpo tfuq
44
45   kou nbko+,
46
47      Lpvou dpvoufs> // dsfbuf Lpvou pc fdu
48
49      dpvu ?? #dpvoufs.  bgufs kotuboukbukpo= #>
4       dpvoufs.rskou+,>
51
52      tfuq+ dpvoufs1 ; ,> // tfu   vtkoh b gskfoe gvodukpo
53      dpvu ?? #dpvoufs.  bgufs dbmm up tfuq gskfoe gvodukpo= #>
54      dpvoufs.rskou+,>
55     // foe nbko
```

```
dpvoufs.  bgufs kotuboukbukpo= 3
dpvoufs.  bgufs dbmm up tfuq gskfoe gvodukpo= ;
```

sr l UOIU Iskfoe ro| orrt rskwbuf z tz pt –u o r-o 0(f o 4 –u 40)

M; vk-qw tfuq ,tqym 6C 76- q i HI'–"tm0'–i v l li twwmn, vk-qw q-q v—i u mu j mz n, vk-qw wnkti'' Lpvou2Mz–pq zni'ww0[pmr tfuq q qy? ws nl nwz wj rnk–dpvoufs0tqym85 xi''m dpvoufs i' iv izo; u mr—wtfuq zi–pmz–pi v ; 'qyo i pi vl tm,'; kp i' –pmvi u mwn–pm wj rnk– –wki tt –pmn, vk-qw 0i' qy

```
    dpvoufs.tfuq+ ; ,>
```

Ph"w; zmu w? m-pmrzqml l nkti zi–qw qy tqym C0"w; –tt–znkmq mrzzwz u m'i om qyl dki–qyo –pi– n, vk-qw tfuq ki vvw–u wl qi" kti'' Lpvou—rskwbuf l i–i u mu j mz 2

E' [mu mr–qw nl 0Mp254259 q i u mkpi v dki t m i u xtmwn; 'qyo –pmgskfoe kw'–z; k–2 P–[w; tl vwzu i tt" j mi xxzwxzq–m–wl mqy mn, vk-qw tfuq i' i u mu j mz n, vk-qw wnkti'' Lpvou2P–[w; tl i t'w vwzu i tt" j mi xxzwxzq–m–w'mi zi–m–pmxzwozi u wn Mp254259 qy–w –pzmmqmD

1. E pmil mz nqm, m2b0Lpvou.i- kw–i qyqyo –pm Lpvou kti'' l mqy q–qw 0[pqkp qy –; zv kw–i qy' –pmxzw–w–"xmwngskfoe n, vk-qw tfuq
2. Ev qi xtmu mr–i–qw nqm, m2b0 Lpvou.drr- kw–i qyqyo –pml mqy q–qw' wn kti'' Lpvou—u mu j mz n, vk-qw' i vl –pml mqy q–qw wngskfoe n, vk-qw tfuq
3. E –m–xzwozi u ,m2b0gkh43~48.drr- [q–p nbko2

’i nc i frnvm q oeulsot

P’–xw’’q tm–w’xnkq“ w?nztwil nl n, vk–qw’ i’ gskfoe’ wni kti’’2Li kp n, vk–qw qy–nvl nl –wj mi gskfoe u ; ’–j mm]xtqkq–t“ l nkti znl qy –pmkti’’ l mmqy q–qw i’ i gskfoe wn–pmkti’’2

UOI .swr 0 p or b(sw0p-

f m?–m’mmv –pi–iv wj mk–’u mu j mz n, vk–qw’ kiv u ivqx; ti–m–pmwj mk–’l i–i 2Ow[l w u mu j mz n, vk–qw’ svw[ ) p wj mk–’l i–i u mu j mz’ –wu ivqx; ti–m L?mz“ wj mk–pi’ ik1 km’ –wq’ w[v ill zm’ –pzw; op i xwqy–mz ki ttml **or** ,i H. . s m“[wzl -2c pmuikt xwqy–mz q’ *tuz* xiz–wn–pmwj mk–q’mn q2n20–pmu mu wz“ wkk; xqml j “ –pmuikt xwqy–mz q’ vw–zml ntnk–nl qy –pmzm; t–wni tk fpg wxmzi–qw ww –pmwj mk–2a i–pmz0–pmuikt xwqy–mz q’ xi’’nl ,j “ –pmkwu xqmz- i’ iv qu xtqkq–izo; u mv–-wmikp wn–pmwj mk–’vww 1tubukd u mu j mz n, vk–qw’2 bnk–qw 542 qy–zwl ; km tubukd kti’’ u mu j mz’ ivl m]xtiqy’ [p“ –pmuikt xwqy–mz q’ *tuz* qu xtqkq–t“ xi’’nl –wtubukd u mu j mz n, vk–qw’2

Vj mk–’ ; ’m–pmuikt xwqy–mz qu xtqkq–t“ ,i’ [m?–ml ww m–w–pq’ xwqy– wz m]xtqkq–t“ –w znmmzmvkm–pmq, l i–i u mu j mz’ ivl u mu j mz n, vk–qw’2 c pm–“xmwn–pmuikt xwqy–mz l mxmvl ’ ww –pm–“xmwn–pmwj mk–ivl [pm–pmz–pmu mu j mz n, vk–qw qy [pqkp uikt q’ ; ’nl q’ l nkti znl dpotu2Mwz m]iu xtm0qy i vwwkw’–iv–u mu j mz n, vk–qw wnkti’’ Hnrmp ff0–pm uikt xwqy–mz pi’ –“xmHnrmp ff - dpotu ,i kw’–iv–xwqy–mz –wi vwwkw’–iv–Hnrmp ff wj mk–2Pv i kw’–iv–u mu j mz n, vk–qw wn–pmkti’’ Hnrmp ff0–pmuikt xwqy–mz pi’ –pm l i–i –“xmdpotu Hnrmp ff - dpotu ,i kw’–iv–xwqy–mz –wi kw’–iv–Hnrmp ff wj mk–2

c pmv m]–m]iu xtm’pw[’ qu xtqkq–ivl m]xtqkq–; ’mwn–pmuikt xwqy–mz ti–mz qy –pq’ kpi x–mz ivl qy Hpi x–mz 550[m’pw[’wu m’; j ’–iv–q tivl ’; j –tmm]iu xtm wn; ’qy o uikt2

a rlelvn co p rlelvn tlo v i pry s lovi us Deeitt co ievB I cw z i i t

Mp; zm542: l mu ww’–zi–m –pmqu xtqkq–ivl m]xtqkq–; ’mwn–pmuikt xwqy–mz –w mvij tmi u mu j mz n, vk–qw wnkti’’ \ftu –wxzqy––pmrskwbuf l i–i wni \ftu wj mk–2

```
// Ikh. 43.49= gkh43~49.drr
// ]tkoh uif uikt rpkoufs up sfgfs up pc fdu nfncfst.
%kodmvef ?kptusfbnB
vtkoh obnftrbdf tue>

dmbtt \ftu

rvcmkd=
   \ftu+ kou A 3 ,> // efgbvmu dpotusvdups
   wpke rskou+, dpotu>
rskwbuf=
   kou  >
 > // foe dmbtt \ftu

// dpotusvdups
\ftu==\ftu+ kou wbmvf ,
   =  + wbmvf , // kokukbmk f   up wbmvf

   // fnru  cpe
  // foe dpotusvdups \ftu
```

srI UOIU uikt –x| t xz –rx– o|s t –rx– orrt x|v o| –pytr z tz pt 0(fo 3 –u40)

```
32
33   // rskou   vtkoh knrmkdku boe f rmkdku uikt rpkoufst>
34   // uif rbsfouiftft bspvoe -uikt bsf sf vksfe
35   wpke \ftu==rskou+, dpotu
36
37      // knrmkdkum  vtf uif uikt rpkoufs up bddftt uif nfncfs
38      dpvu ?? #           A # ??  >
39
3       // f rmkdkum  vtf uif uikt rpkoufs boe uif bssp! prfsbups
41      // up bddftt uif nfncfs
42      dpvu ?? #{o  uikt2B  A # ?? uikt2B >
43
44      // f rmkdkum  vtf uif efsfgfsfodfe uikt rpkoufs boe
45      // uif epu prfsbups up bddftt uif nfncfs
46      dpvu ?? #{o+-uikt,.  A # ?? + -uikt ,.  ?? foem>
47     // foe gvodukpo rskou
48
49   kou nbko+,
4
51      \ftu uftuXc fdu+ 45 ,> // kotuboukbuf boe kokukbmk f uftuXc fdu
52
53      uftuXc fdu.rskou+,>
54     // foe nbko
```

```
          A 45
  uikt2B  A 45
+-uikt,.  A 45
```

srl UOIU uikt -x| t xz -rx- o|s t -rx- orrt x|v o| -pytr ztz pt 0(fo 4 -u40)

Mvz qt; '-zi-qw x; zxw'm0u mu j mz n, vk-qw rskou ,tqym68 7:- mq'-xzqy-' j "; 'qyo -pmuikt xwqy-mz qu xtdkqt" ,tqym6A- wwt" -pmviu mwn-pml i-i u mu j mz q' 'xmkqmpl 2 c pmr rskou ; 'm'-[wl qmnzmr-vw-i-qw' -wikkm' -pzw; op -pmuikt xwqy-mz -pmizzw[wxmzi-wz ,2B- wm-pmuikt xwqy-mz ,tqym75- ivl -pml w-wxmzi-wz ,.- wm-pml mzmmzmrkml uikt xwqy-mz ,tqym79-2Uw-m-pmxizmr-pm'm' izw, vl -uikt ,tqym79- [pmr ; 'ml [qp -pm l w-u mu j mz 'mmk-qw wxmzi-wz ,.-2c pmxizmr-pm'm' izmzmy; qml j mki ; 'm-pml w-wxmzi-wz pi' pqppmz xzmkml mrkm-piv -pm- wxmzi-wz2 f q-pw; - -pmxizmr-pm'm'0 -pm m]xzm'qw -uikt. [w, tl j mm'it; i-ml i' qnq-[mzmxizmr-pmq'ml i' -+ uikt. ,0[pqkp q' i kwu xql ti-qw mzzw0j mki; 'm-pml w-wxmzi-wz kivvw-j m; 'ml [qp i xwqy-mz2

P(v v(wb-(r-lv v swr --(- UOI

zzn vzpt o zu 'ynz n n nwyrsn zput uvnukzuwMV) pz k vupt znwzu kt u n zpyk u - vpskzput nuvuw z nl uz n nwyrsn zput uvnukzuw k+ n'ynl ut s+) pz kt t?it; my' kykt u n zfyt k n, k unnunt nzu kt u n zuwk l nunnunt nl vupt znwzu kt u n zc

Vvmqy-mzm'-qyo ; 'mwn-pmuikt xwqy-mz q' -wxzm'mr-iv wj mk-mzwu j mqyo i' 'qpvml -w q'-mm2E' [mtt-'mmqy Hpix-mz 550'mmli' 'qpvu mr-kiv ki; 'm'mzqw, ' mzzwz' [pmr -pmwj mk- kw-iqy' xwqy-mz' -wl "viu qkitt" ittwki-ml '-wzi om2

tlo v i pry slovi us poc ni mctec i q oedso mcnt

Evw-pmz ; 'mwn-pmuikt xwqy-mz q' -wmrij tmus **usv-v ——t- E uy us** -pi-q'0qy1 ?ws qyo u ; t-qxtmn vk-qw' qy -pm'iu m'-i-mu mr-,i' qy tqym56 wnMp2542,5G-2c pmxzwozi u wnMp’2542 5A 542 5Cu wl qpqm̀ kti ’’ \knf—’ynz n, vk–qw’ tfu\knf0tfuMpvs0tfuTkovuf ivl tfuafdpoe ’; kp –pi –nikp zm=; zv’ i znmnznv km–wi \knf wj mk—wmv i j tmki’kil nl u mu j nzl n, vk–qw ki tt’2Uw–dkmqv Mp2542 5B –pi ––pmti’–’–i –mu mv–qv –pmj wl “ wnnikp wn–pm̀m u mu j nz n, vk–qw’ zm=; zv’ -uikt ,tqv m̀ 6606C07: ivl 87- qv–wi zm=; zv –“xmwn\knf)2

```
// Ikh. 43.4:= \knf.i
// Lbtdbekoh nfncfs gvodukpo dbmmt.

// \knf dmbtt efgkokukpo.
// Tfncfs gvodukpot efgkofe ko \knf.drr.
%kgoefg \NTH~M
%efgkof \NTH~M

dmbtt \knf

rvcmkd=
   \knf+ kou A 31 kou A 31 kou A 3 ,> // efgbvmu dpotusvdups

   // tfu gvodukpot +uif \knf ) sfuvso u rft fobcmf dbtdbekoh,
   \knf )tfu\knf+ kou1 kou1 kou ,> // tfu ipvs1 nkovuf1 tfdpoe
   \knf )tfuMpvs+ kou ,> // tfu ipvs
   \knf )tfuTkovuf+ kou ,> // tfu nkovuf
   \knf )tfuafdpoe+ kou ,> // tfu tfdpoe

   // hfu gvodukpot +opsnbmm  efdmbsfe dpotu,
   kou hfuMpvs+, dpotu> // sfuvso ipvs
   kou hfuTkovuf+, dpotu> // sfuvso nkovuf
   kou hfuafdpoe+, dpotu> // sfuvso tfdpoe

   // rskou gvodukpot +opsnbmm  efdmbsfe dpotu,
   wpke rskou]okwfstbm+, dpotu> // rskou vokwfstbm uknf
   wpke rskouauboebse+, dpotu> // rskou tuboebse uknf
rskwbuf=
   kou ipvs> // 3 2 56 +572ipvs dmpdl gpsnbu,
   kou nkovuf> // 3 2 8<
   kou tfdpoe> // 3 2 8<
 > // foe dmbtt \knf

%foekg
```

sr l UOIU \knf r-o stux|xx+ z –sxuts –t |op+ ro rosts z tz pt .u |r x+ ro–0

```
// Ikh. 43.4;= \knf.drr
// \knf dmbtt nfncfs2gvodukpo efgkokukpot.
%kodmvef ?kptusfbnB
%kodmvef ?kpnbokrB
%kodmvef #\knf.i# // \knf dmbtt efgkokukpo
vtkoh obnftrbdf tue>

```

sr l UOIU \knf r-o z tz pt .u |r x+ stux|xx+ z –sxuts –t |op+ ro rosts z tz pt . u |r x+ ro–0(f o 3 –u50)

```
// dpotusvdups gvodukpo up kokukbmk f rskwbuf ebub>
// dbmmt nfncfs gvodukpo tfu\knf up tfu wbskbcmft>
// efgbvmu wbmvft bsf 3 +tff dmbtt efgkokukpo,
\knf==\knf+ kou is1 kou nko1 kou tfd ,

   tfu\knf+ is1 nko1 tfd ,>
  // foe \knf dpotusvdups

// tfu wbmvft pg ipvs1 nkovuf1 boe tfdpoe
\knf )\knf==tfu\knf+ kou i1 kou n1 kou t , // opuf \knf ) sfuvso

   tfuMpvs+ i ,>
   tfuTkovuf+ n ,>
   tfuafdpoe+ t ,>
   sfuvso -uikt> // fobcmft dbtdbekoh
  // foe gvodukpo tfu\knf

// tfu ipvs wbmvf
\knf )\knf==tfuMpvs+ kou i , // opuf \knf ) sfuvso

   ipvs A + i BA 3 )) i ? 57 , D i = 3> // wbmkebuf ipvs
   sfuvso -uikt> // fobcmft dbtdbekoh
  // foe gvodukpo tfuMpvs

// tfu nkovuf wbmvf
\knf )\knf==tfuTkovuf+ kou n , // opuf \knf ) sfuvso

   nkovuf A + n BA 3 )) n ? 93 , D n = 3> // wbmkebuf nkovuf
   sfuvso -uikt> // fobcmft dbtdbekoh
  // foe gvodukpo tfuTkovuf

// tfu tfdpoe wbmvf
\knf )\knf==tfuafdpoe+ kou t , // opuf \knf ) sfuvso

   tfdpoe A + t BA 3 )) t ? 93 , D t = 3> // wbmkebuf tfdpoe
   sfuvso -uikt> // fobcmft dbtdbekoh
  // foe gvodukpo tfuafdpoe

// hfu ipvs wbmvf
kou \knf==hfuMpvs+, dpotu

   sfuvso ipvs>
  // foe gvodukpo hfuMpvs

// hfu nkovuf wbmvf
kou \knf==hfuTkovuf+, dpotu

   sfuvso nkovuf>
  // foe gvodukpo hfuTkovuf

```

srlUaU \knf r-o z tz pt .u |r x+ stux|xx+ z -sxuxts -t |op-t ro rosts z tz pt . u |r x+ ro-0(fo 4 -u50)

```
// hfu tfdpoe wbmvf
kou \knf==hfuafdpoe+, dpotu

   sfuvso tfdpoe>
  // foe gvodukpo hfuafdpoe

// rskou \knf ko vokwfstbm2uknf gpsnbu +MM=TT=aa,
wpke \knf==rskou]okwfstbm+, dpotu

   dpvu ?? tfugkmm+  3  , ?? tfu!+ 5 , ?? ipvs ?? #=#
      ?? tfu!+ 5 , ?? nkovuf ?? #=# ?? tfu!+ 5 , ?? tfdpoe>
  // foe gvodukpo rskou]okwfstbm

// rskou \knf ko tuboebse2uknf gpsnbu +MM=TT=aa ET ps YT,
wpke \knf==rskouauboebse+, dpotu

   dpvu ?? + + ipvs AA 3    ipvs AA 45 , D 45 = ipvs ( 45 ,
      ?? #=# ?? tfugkmm+  3  , ?? tfu!+ 5 , ?? nkovuf
      ?? #=# ?? tfu!+ 5 , ?? tfdpoe ?? + ipvs ? 45 D # ET# = # YT# ,>
  // foe gvodukpo rskouauboebse
```

sr l UGlU \knf r-o z tz pt .u |r x+| stu|xx+| z -sxuts -t |op-t ro rosts z tz pt . u |r x+| ro-0(f o 5 -u50)

```
// Ikh. 43.4<= gkh43~4<.drr
// Lbtdbekoh nfncfs2gvodukpo dbmmt !kui uif uikt rpkoufs.
%kodmvef ?kptusfbnB
%kodmvef #\knf.i# // \knf dmbtt efgkokukpo
vtkoh obnftrbdf tue>

kou nbko+,

   \knf u> // dsfbuf \knf pc fdu

   // dbtdbefe gvodukpo dbmmt
   u.tfuMpvs+ 4; ,.tfuTkovuf+ 63 ,.tfuafdpoe+ 55 ,>

   // pvurvu uknf ko vokwfstbm boe tuboebse gpsnbut
   dpvu ?? #]okwfstbm uknf= #>
   u.rskou]okwfstbm+,>

   dpvu ?? #{oauboebse uknf= #>
   u.rskouauboebse+,>

   dpvu ?? #{o{oUf! tuboebse uknf= #>

   // dbtdbefe gvodukpo dbmmt
   u.tfu\knf+ 531 531 53 ,.rskouauboebse+,>
   dpvu ?? foem>
  // foe nbko
```

sr l UGlU Oo rosx|v z tz pt .u |r x+| ro- xw wt uikt -x| t 0(f o 3 -u40)

```
]okwfstbm uknf= 4;=63=55
auboebse uknf= 9=63=55 YT

Uf! tuboebse uknf= ;=53=53 YT
```

sr I UoIu Oo rosx|v z tz pt .u |r x┼ ro— xw wt uikt –x| t 0(fo 4 –u40)

c pmxzwoziu wn Mp2542 5C kzni–m' \knf wj mk–u ,tqy mC-0–pmv ; 'm' q–qy ki'kil ml u mu j ma ln; vk–qw ki tt' ,tqy m' 56 ivl 68-2f p" l wm' –pm–nkpvqy; mwnzm; zvqyo -uikt i' i znmmzmvkm[wzs c pml w–wx mzi–wz , .- i'' wkq–m' nzwu tmn––wzopp–0'wtqy m56 nq'–m?it; i–m' u.tfuMpvs+4; ,0–pmv zm; zv' i znmmzmvkm–ww j mk–u i' –pm?it; mwn–pq' n; vk–qw ki tt2c pm znu iqyqyo n]xzm''qw q' –pmv qy–mxzm–nl i'

```
    u.tfuTkovuf+ 63 ,.tfuafdpoe+ 55 ,>
```

c pmu.tfuTkovuf+ 63 , ki tt n]nk; –m' ivl zm; zv' i znmmzmvkm–w–pmwj mk–u2c pmznu iqy 1 qyo n]xzm''qw q' qy–mxzm–nl i'

```
    u.tfuafdpoe+ 55 ,>
```

Sqy m68 it'w; 'm' ki'kil qyo2c pmki tt' u ; '–ixxmiz qy –pmwzl mz 'pw[v qy tqy m680j nki ; 'm rskouauboebse i' l mqy nl qy –pmkti'' l wm' vw–zm; zv i znmmzmvkm–wu2 Wi kqyo –pmki tt –w rskouauboebse j mwzm–pmki tt –w tfu\knf qy tqy m68 zm'; t–' qy i kwu xqi–qw mzwz2 Hpix–mz 55 xzm'mv–' 'm?mzi t xzi k–qki t n]iu xtm' wn; 'qyo ki'kil nl n; vk–qw ki tt'2V vm'; kp n]iu xtm; 'm'u ; t–qxtm?? wxmzi–wz' [qp dpvu –ww; –x; –u ; t–qxtm?it; m'qy i 'qyotm'–i–nu mv–2

UoI d re Pu .. pv mp-.

c pmzmq' iv qu xwz–iv–n]kmx–qw –w–pmz; tm–pi–nikp wj mk–wni kti'' pi' q–' w[v kwx" wn i tt –pml i–i u nu j mz' wn–pmkti''2Pv kmz–iqy ki'm'0wwt" wmkwx" wni ?izqj tm'pw; tl j m 'pizml j " i tt wj mk–' wni kti''2E **d re vs s ——t -** q' ; 'ml nwz –pm'mivl w–pmz zmi'w'2 b; kp i ?izqj tmzmxzm'mv–' kti'' 1[q m qy nwzu i–qw ,qm20i xzwxmz–" –pi–q' 'pizml j " i tt qy'–ivkm'ivl q' vw–'xnkqk–wiv" wmwj mk–wn–pmkti''-2a nki tt –pi––pm?mz'qw' wnkti'' JsbefFppl qy Hpix–mz A ; 'mtubukd l i–i u nu j mz' –w '–wzmkw'–iv–' zmxzm'mv–qyo –pm v; u j mz wnozil m' –pi–i tt JsbefFppl wj mk–' ki v pwtl 2

z sul'culo mnttH l i I cuc

Sm–'–n; z–pmz u w–q' i–m–pmvmnl nwz tubukd kti'' 1[q ml i–i [qp iv n]iu xtm2b; xxw'm–pi– [mpi?mi ?q nwoiu m[qp Tbsukbo' ivl w–pmz 'xikmkzmi–; zm'2Li kp Tbsukbo –nvl ' –wj m j zi?mivl [qtqyo –wi––iks w–pmz 'xikmkzmi–; zm' [pmv –pmTbsukbo q' i [izm–pi––pmzmizm i–tmi'–nq' mTbsukbo' xzm'mv–2Ph m[mz –piv nq' mizmxzm'mv–0nikp Tbsukbo j nkwu m' kw[1 izl t"2bwnikp Tbsukbo vmnl ' –wsvw[–pmnbsukboLpvou2f mkw; tl nvl w[nikp qy'–ivkm wnkti'' Tbsukbo [qp nbsukboLpvou i' i l i–i u nu j mz2Ph [ml w0m?mz" Tbsukbo [qt pi?m i 'mxizi–mkwx" wn–pml i–i u nu j mz2L?mz" –qu m[mkzmi–mi vn[Tbsukbo0[mtt–pi?m–w ; xl i–m–pml i–i u nu j mz nbsukboLpvou qy i tt Tbsukbo wj mk–'2I wqyo –pq' [w; tl zny; qm m?mz" Tbsukbo wj mk––w pi?m0wz pi?mikkm'' –w0pivl tm' –w i tt w–pmz Tbsukbo wj mk–' qy u nu wz"2c pq' [i'–m''xikm[qp –pmzml ; vl iv–kwxqm'ivl [i'–m'–qu mqy ; xl i–qyo –pm'mx1 izi–mkwxqm'2Pv'–mil 0[ml nkti zmnbsukboLpvou –wj mtubukd2c pq' u ism' nbsukboLpvou kti'' 1[q ml i–i 2L?mz" Tbsukbo ki v ikkm'' nbsukboLpvou i' qnq–[mzmi l i–i u nu j mz wn–pm

Tbsukbo0j ; –wt“ wwmkwx“ wn–pmtubukd ?izqj j tmnbsukboLpvou q̓ u iqy–iqymh j “ H. . 2 c pq̓ ’i?m̓ ’xikm2f m̓ i?m–qu mj “ pi?qyo –pmTbsukbo kww’–z; k–wz qykzmu mr–tubukd ?izql ij tmnbsukboLpvou ivl pi?qyo –pmTbsukbo l m̓–z; k–wz l nkzmu mr–nbsukboLpvou2Fnki ; ’m –pmzmq̓ wwt“ wwmkwx“0[ml wvvw–pi?m–wqykzmu mr–wz l nkzmu mr–’mxizi–mkwxqm̓ wnnbs2 ukboLpvou nwz mikp Tbsukbo wj rmk–2

bp- (-v l wnp e s) UOIh

i ynbcicr l kzk n muyzu yk(nyzuukon) nt k ypt osn uw+u z n l kzk uwkss u n zy u k skyy) pss y’ p nc

es i co aolulcrl culso s y i rl I cw z i i t

Et–pw; op –pm̋ u i“ ’mmu tqs motwj it ?izqj j tm̓0i kti’’–̓—tubukd l i–i u mu j mz’ pi?mkti’’ ’kwxm2Et’w0tubukd u mu j mz’ kiv j ml nktizmh rvcmkd0rskwbuf wz rspufdufe2E n; vl i 1 u mr–itl–“xmtubukd l i–i u mu j mzq̓ qyq–qj tq̓”mh j “ l mi ; t––w32Ph“w; [iv–i l qmzmr–qyql –qj t ?it; m0i tubukd l i–i u mu j mz kiv j mqyq–qj tq̓”mh *ut n*2E tubukd dpotu l i–i u mu j mz wn kou wz fovn –“xmkiv j mqyq–qj tq̓”mh qy q–̓ l nktizi–qw qy –pmkti’’ l mqyq–qw2Ow[m̓mz0itt w–pmz tubukd l i–i u mu j mz’ u ; ’–j ml mqymh *kz osu ks t k nyvk n y uwn* ,q2m20w; –̓q m–pm j wl “ wn–pmkti’’ l mqyq–qw- ivl kiv j mqyq–qj tq̓”mh wwt“ qy –pw̓ml mqyq–qw’2Phi tubukd l i–i u mu j mz q̓ iv wj rmk–wni kti’’ –pi–xzw?q m̓ i l mi ; t–kw’–z; k–wz0–pmtubukd l i–i u mu j mz vmmh vw–j mqyq–qj tq̓”mh j nki ; ’mq–̓ l mi ; t–kw’–z; k–wz [qtt j mkittmh 2

Deeittlo y i rl I cw z i i t

E kti’’–̓—rskwbuf ivl rspufdufe tubukd u mu j mz’ izmvwzu itt“ ikkm̓’mh –pzw; op –pm kti’’–̓—rvcmkd u mu j mz n; vk–qw’ wz gskfoe’2E kti’’–̓—tubukd u mu j mz’ m]q̓–m̓mr [pmr vwwj rmk–̓ wn–pi–kti’’ m]q̓–2c wikkm̓’ i rvcmkd tubukd kti’’ u mu j mz [pmr vwwj rmk–̓ wn –pmkti’’ m]q̓–0’qu xt“ xzmmq –pmkti’’ viu mivl –pmj qyiz“ ’kwxmzm̓wt; –qw wxmzi–wz ,==- –w–pmviu mwn–pml i–i u mu j mz2Mwz m]iu xtm0qnw; z xzmkmh qyo ?izqj j tmnbsukboLpvou q̓ rvcmkd0q–kiv j mikkm̓’mh [qp –pmm]xzm̓’qw Tbsukbo==nbsukboLpvou [pmr –pmzmizmvw Tbsukbo wj rmk–̓2,V nkw; z’m0; ’qyo rvcmkd l i–i q̓ l q̓kw; ziomh 2–

c wikkm̓’ i rskwbuf wz rspufdufe tubukd kti’’ u mu j mz [pmr vwwj rmk–̓ wn–pmkti’’ m]q̓–0xzw?q mi rvcmkd **d re ——t- E uy** ivl kitt –pmn; vk–qw j “ xzmmq qyo q–̓ viu m[qp –pmkti’’ viu mivl j qyiz“ ’kwxmzm̓wt; –qw wxmzi–wz2E tubukd u mu j mz n; vk1 –qw q̓ i ’mz?qkmwn–pm *skyy*0vw–wni ’xnkqqk wj rmk–wn–pmkti’’2

d(03 l -p wr swpp-swr m p-2l 0s(wUOIUU

skyyGrbcicr l kzk n muy kt l bcicr n nw’ t zputy n pyz kt l kt n’ynl n(nt p t u u n zy u z kz skyy k(n nnt pt yzkt zpkznl c

I i sotv culo y i rl I cw z i i t

c pmxzwozi u wnMqp’254264 54266 l mu ww’–zi–m̓ i rskwbuf tubukd l i–i u mu j mz kittmh dpvou ,Mqp2542640 tqym69- ivl i rvcmkd tubukd u mu j mz n; vk–qw kittmh hfuLpvou ,Mqp2542640tqym5G-2Pv Mqp2542650tqymB l mqym̓ ivl qyq–qj tq̓”m̓ –pml i–i u mu j mz dpvou –w”mzw *kz osu ks t k nyvk n y uwn* ivl tqym̓ 56 59 l mqymtubukd u mu j mz n; vk–qw hfu2 Lpvou2Uw–qkm–pi–vmq–pmz tqymB vwz tqym56 qykt; l m̓ s m̋[wzl tubukd0“m–j w–p tqym̓ zmmz –wtubukd kti’’ u mu j mz’2f pmr tubukd q̓ ixxtqmh –wiv q–mu i–otwj it viu m̓xikm̓’kwxm0 –pi–q–mu j nkwu m̓ s vw[v wwt“ qy –pi–mqm2c pmtubukd kti’’ u mu j mz’ vmmh –wj mi?iqij tm

–wiv“ ktqnv–kwl m–pi–; ’m̓ –pmkti’’0’w[ml nkti zm–pmu tubukd wwt“ qy –pm.i nqm2I i–i u mu j mz dpvou u iqy–iqy’ i kw; v–wn–pmv; u j mz wn wj mk–’ wn kti’’ Hnrmp ff –pi–pi?m j mnv qy’–iv–q–nh 2f pmv wj mk–’ wn kti’’ Hnrmp ff mq̓–0u mu j mz dpvou ki v j mznmznv knh –pzw; op iv“ u mu j mz n, vk–qw wniv Hnrmp ff wj mk– qy Mp2542650dpvou q̓ znmznv knh j“ j w–p tqy m66 qy –pmkw’–z; k–wz ivl tqy m76 qy –pml m̓–z; k–wz2

P(vv(wb-(r-lvv swr --(- UQI

NGyk u vpskzput nuwuwzu pt s’lnrn+) uwb bcicr *pt znlnpt pzput u k* bcicr *lkzk n nwkzosu ks t k nyvk ny uvnc*

```
// Ikh. 43.53= Hnrmp ff.i
// Hnrmp ff dmbtt efgkokukpo !kui b tubukd ebub nfncfs up
// usbdl uif ovncfs pg Hnrmp ff pc fdut ko nfnps
%kgoefg HTYRXxHH~M
%efgkof HTYRXxHH~M

%kodmvef ?tuskohB
vtkoh obnftrbdf tue>

dmbtt Hnrmp ff

rvcmkd=
   Hnrmp ff+ dpotu tuskoh )1 dpotu tuskoh ) ,> // dpotusvdups
    Hnrmp ff+,> // eftusvdups
   tuskoh hfuIkstuUbnf+, dpotu> // sfuvso gkstu obnf
   tuskoh hfuRbtuUbnf+, dpotu> // sfuvso mbtu obnf

   // tubukd nfncfs gvodukpo
   tubukd kou hfuLpvou+,> // sfuvso ovncfs pg pc fdut kotuboukbufe
rskwbuf=
   tuskoh gkstuUbnf>
   tuskoh mbtuUbnf>

   // tubukd ebub
   tubukd kou dpvou> // ovncfs pg pc fdut kotuboukbufe
 > // foe dmbtt Hnrmp ff

%foekg
```

srl UQIfO Hnrmp ff r–o stux|xx–| xwo tubukd so o z tz pt — or’ wt | z pt –u Hnrmp ff –pytr x| z tz — 0

```
// Ikh. 43.54= Hnrmp ff.drr
// Hnrmp ff dmbtt nfncfs2gvodukpo efgkokukpot.
%kodmvef ?kptusfbnB
%kodmvef #Hnrmp ff.i# // Hnrmp ff dmbtt efgkokukpo
vtkoh obnftrbdf tue>

```

srl UQIfU Hnrmp ff r–o z tz pt .u |r x–| stux|xx–| 0(fo 3 –u40)

```
8   // efgkof boe kokukbmk f tubukd ebub nfncfs bu hmpcbm obnftrbdf tdprf
9   kou Hnrmp ff==dpvou A 3> // dboopu kodmvef lf !pse tubukd

21  // efgkof tubukd nfncfs gvodukpo uibu sfuvsot ovncfs pg
22  // Hnrmp ff pc fdut kotuboukbufe +efdmbsfe tubukd ko Hnrmp ff.i,
23  kou Hnrmp ff==hfuLpvou+,
24
25     sfuvso dpvou>
26    // foe tubukd gvodukpo hfuLpvou
27
28  // dpotusvdups kokukbmk ft opo2tubukd ebub nfncfst boe
29  // kodsfnfout tubukd ebub nfncfs dpvou
2   Hnrmp ff==Hnrmp ff+ dpotu tuskoh )gkstu1 dpotu tuskoh )mbtu ,
31     = gkstuUbnf+ gkstu ,1 mbtuUbnf+ mbtu ,
32
33     OOdpvou> // kodsfnfou tubukd dpvou pg fnrmp fft
34     dpvu ?? #Hnrmp ff dpotusvdups gps # ?? gkstuUbnf
35        ??     ?? mbtuUbnf ?? # dbmmfe.# ?? foem>
36    // foe Hnrmp ff dpotusvdups
37
38  // eftusvdups efbmmpdbuft e obnkdbmm  bmmpdbufe nfnps
39  Hnrmp ff== Hnrmp ff+,
3
41     dpvu ?? # Hnrmp ff+, dbmmfe gps # ?? gkstuUbnf
42        ??     ?? mbtuUbnf ?? foem>
43     22dpvou> // efdsfnfou tubukd dpvou pg fnrmp fft
44    // foe  Hnrmp ff eftusvdups
45
46  // sfuvso gkstu obnf pg fnrmp ff
47  tuskoh Hnrmp ff==hfuIkstuUbnf+, dpotu
48
49     sfuvso gkstuUbnf> // sfuvso dpr  pg gkstu obnf
4     // foe gvodukpo hfuIkstuUbnf
51
52  // sfuvso mbtu obnf pg fnrmp ff
53  tuskoh Hnrmp ff==hfuRbtuUbnf+, dpotu
54
55     sfuvso mbtuUbnf> // sfuvso dpr  pg mbtu obnf
56    // foe gvodukpo hfuRbtuUbnf
```

sr I UOf U Hnrmp ff r-o z tz pt .u |r x+| stu x|xx+| 0(f o 4 -u40)

Mdp; zm54266 ; 'm tubukd u mu j mz n, vk-qw hfuLpvou -w l m-mzu qy m-pmv; u j mz wn Hnrmp ff wj mk-' qy u mu wz" i- ?izqw; ' xwqy-' qy -pm xzwoziu 2 c pm xzwoziu kitt' Hnrmp ff==hfuLpvou+, j mwzmiv" Hnrmp ff wj mk-' pi?mj mw kzmi-ml ,tqym56-0i m-mz -[w Hnrmp ff wj mk-' pi?mj mw kzmi-ml ,tqym67-ivl i-m-mz -pw'm Hnrmp ff wj mk-' pi?mj mw l m'-zw"ml ,tqym78-2Sqym 5: 6Cqy nbko l mqymi vm'-ml 'kwxm2a mkitt -pi-twkit?izqj tm mlq-; v-q -pm'kwxmqy [pqkp -pm" izml mqymt -mzu qyi-m2Pv -pq mliu xtm0[mkzmi-m-[w Hnrmp ff wj mk-' qy tqym 5A 5B qy'd m-pmv m'-ml 'kwxm2E' mikp kw'-z; k-wz mlmk; -m0q-qy kzmu mv-' kti'' Hnrmp ff--tubukd l i-i u mu j mz dpvou2 c pm m Hnrmp ff wj mk-' izm l m'-zw"ml [pmv -pm xzwoziu zmikpm tqym6C2E--pi-xwqy-0mikp wj mk-'-l m'-z; k-wz mlm1 k; -m'ivl l mkzmu mv-' kti'' Hnrmp ff--tubukd l i-i u mu j mz kw; v-2

```
// Ikh. 43.55= gkh43~55.drr
// tubukd ebub nfncfs usbdlkoh uif ovncfs pg pc fdut pg b dmbtt.
%kodmvef ?kptusfbnB
%kodmvef #Hnrmp ff.i# // Hnrmp ff dmbtt efgkokukpo
vtkoh obnftrbdf tue>

kou nbko+,

   // op pc fdut f ktu> vtf dmbtt obnf boe ckobs  tdprf sftpmvukpo
   // prfsbups up bddftt tubukd nfncfs gvodukpo hfuLpvou
   dpvu ?? #Uvncfs pg fnrmp fft cfgpsf kotuboukbukpo pg bo  pc fdut kt #
      ?? Hnrmp ff==hfuLpvou+, ?? foem> // vtf dmbtt obnf

   // uif gpmmp!koh tdprf dsfbuft boe eftusp t
   // Hnrmp ff pc fdut cfgpsf nbko ufsnkobuft

      Hnrmp ff f4+ #avtbo#1 #Fblfs# ,>
      Hnrmp ff f5+ #Spcfsu#1 #Opoft# ,>

      // u!p pc fdut f ktu> dbmm tubukd nfncfs gvodukpo hfuLpvou bhbko
      // vtkoh uif dmbtt obnf boe uif ckobs  tdprf sftpmvukpo prfsbups
      dpvu ?? #Uvncfs pg fnrmp fft bgufs pc fdut bsf kotuboukbufe kt #
         ?? Hnrmp ff==hfuLpvou+,>

      dpvu ?? #{o{oHnrmp ff 4= #
         ?? f4.hfuIkstuUbnf+, ?? # # ?? f4.hfuRbtuUbnf+,
         ?? #{oHnrmp ff 5= #
         ?? f5.hfuIkstuUbnf+, ?? # # ?? f5.hfuRbtuUbnf+, ?? #{o{o#>
     // foe oftufe tdprf ko nbko

   // op pc fdut f ktu1 tp dbmm tubukd nfncfs gvodukpo hfuLpvou bhbko
   // vtkoh uif dmbtt obnf boe uif ckobs  tdprf sftpmvukpo prfsbups
   dpvu ?? #{oUvncfs pg fnrmp fft bgufs pc fdut bsf efmfufe kt #
      ?? Hnrmp ff==hfuLpvou+, ?? foem>
  // foe nbko
```

```
Uvncfs pg fnrmp fft cfgpsf kotuboukbukpo pg bo  pc fdut kt 3
Hnrmp ff dpotusvdups gps avtbo Fblfs dbmmfe.
Hnrmp ff dpotusvdups gps Spcfsu Opoft dbmmfe.
Uvncfs pg fnrmp fft bgufs pc fdut bsf kotuboukbufe kt 5

Hnrmp ff 4= avtbo Fblfs
Hnrmp ff 5= Spcfsu Opoft

 Hnrmp ff+, dbmmfe gps Spcfsu Opoft
 Hnrmp ff+, dbmmfe gps avtbo Fblfs

Uvncfs pg fnrmp fft bgufs pc fdut bsf efmfufe kt 3
```

sr l UUf f tubukd so o z tz pt or' x|v wt | z pt –u–pytr –uo r-o 0

E u mu j mz n, vk–qw 'pw, tl j ml nkti zmh tubukd qnq–l wm vw–i kkm' vw ltubukd l i–i u mu j mz' wz vw ltubukd u mu j mz n, vk–qw 'wn–pmkti ''2d vtq mv w ltubukd u mu j mz n, vkl –qw '0i tubukd u mu j mz n, vk–qw l wm vw–pi ?mi uikt xwqy–mz0j nki ; 'mtubukd l i–i u mu 1