

afnl; AlfOfsf: yfglo kljj lwx?



gkfn;/sf/ j flif tyf; xsf/L dGqfno j flif lj efu afnL; AffOf lgb≵gfno xl/x/ejg, nlntk/

el'dsf

gkfnsf]; du| cflys lj sf; df s|if lflqsf] eldsf pNnNo /x|sf] 5. s/lj #!% k|tzt s'n ufx:y pTkfbgdf ofjubfg /x|sf] s|if Ifpsf| lj sf; sf| k|efj n| c60 Ifpsf| lj sf; df; dt u'Offids k|efj kfb{5. s|if lj sf; nf0{pknAwldhs agfpg slif klj lwsfl dxTj kOff eldsf /xlsfl xG5 . o; sf nflu :yfg lazlif / afnl lazlif slif klj lwsfl lj sf; ug{clxn|sf| k|dV r'gftlsf|?kdf /x|sf| 5. lbuf slif lj sf; sf nflu pknAw slif klj lwx? slifsx?sf; /n kxlr / dfgj:jf:Yo tyf jftfj/Ofdf kltsh c; / gk¥ofpg sl; dsf xgkb5 slifnf0{ lbufkqf lbg] qmddf xflqsf/s /flu, sl/f, enf/kftaf6 xg] gfS; fgl Joj:yfkgdf afnl; #IfOf Ni Iwsf cxd eldsf /IxcfPsf 5. laut slx aif otf afnl ; +IfOfsf nflu /f; folgs kbfysf klofudf alt e0/xlsf 5. h; sf nflu Psflt/ gkfnl slifsx?nl clo blzx?; lu e/ kg{ kl//xlsfl 5 eal csflt/ gkfnsfj7'nflwg/fzllabjzg'kglafWotfe0/xjsfj5. ğİkfndf zq'hlj x?n] afnlgfnldf sl/j #% k|tzt gf\$; fgl k¥ofpb} cfPsf] 5 eg| csfftkm /f; folgs kbfyk?sf cTolws kbfuaf6 j fo; hn tyf eld kbif0f e0{kofj /0fdf gsf/fTds c; /x? blvf kg{yfn|sf 5g\ km tM pTkfbg nfutdf al¢, df6fsfl pj /fzl0mdf \xf;, xflqsf/s sl/fx?df laif krfpq; Sgl Ifdtfsf| | j sf; , zg'hljx?nf0{ | lgoGq0f u|/ /fVq| | ldqhL| x?sf| | j gfzsf ; fy} sd xflgsf/s sl/fx? klg kdv afnl zq'sfj ?kdf bjvfkbf(sjif pTkfbg, pTkfbsTj, uOf:t/ tyf jftfj/Oflo ;Gt'nqdf ;d|t qs/fTds k|efj b|Vf kl//x|sf| 5 . gkfnsf| slif lj sf; sf| ; d:ofnf0{ulxl/P/ laZn|if0f ubf{lbuf| slif list; sfl nflu iftfi/Of cg'sh pko'Qm afnl ; /IfOf klilwsfl sdl g} Go'qtd ptkfbstj sflps kldv sf/Of blv65 . ljut sjx aif(otfb)v pkefQmx?df/f;folgs kbfydQm slif pkh kbfu uaf cfsif0f a9bf ?kdf b]vPsf 5. /f; folgs kbfyk?sf ljsNksf ?kdf gkfndf k/fkj sfnblv kbfu / kl/:st xb) cfPsf afnl ; #If0fsf :yflgo k|j|wx?nf0(~; +1f0f / ;Da4g ugkg[cfhsf] cfjZostf /x|sf] 5 . oxl cfjZstfnf0{ dWogh/ u/L 51/P/ /xsf o:tf kjjlwx?nf0{ ;sng u/L kl:tsfsfj ?k lbgj kpf; ul/Psfj 5. ofj ;fgfj kpf; nj laifjz u// Plssft za'hlj Joj:yfka / kfËfufl/s v|tl ckafpa| s|ifsx?nf0{s|x xb; Dd; xofu kligi ckiliff ül/Psfl 5. o; kl:tsfdf pNnjv ul/Psf afnl ;#If0fsf :yflgo klj lwx?; DkOff?kdf; a} efufins Ifqsf; dl60; IsPsfl 5\p. cfzf 5\d6; klitsfdf; djóg g; lsésf klj lwx?nf0{; djógsf nflu cfufdl lbgdf lj 1 kf7sx?, slifsx? / ; DalGwt Ifladf sfo(ug/ kflj lws, cWoogstf(/ cg; Gwfgstfaf6 cf^gf] cdNo /fo, ; 'enfj / yk : yflgo klj lwx? pknAw u/f0{o; kl:tsfsf] kl/dfhg ug{; xoflu k¥ofpg' xg|5 eGg] ck]lff /fl∨Psf] 5. -; xbak | fb xdfuf04 cfiff9, @) ^%

laifo: L

S_ hdlg dfly af la?jfdf cfqnd0f ug [/flu, sl/f Joj:yfkqsf] nflu koft ul/q]:yflgo klj lwx? ļ= aldsf]kbflu uf0[:tsf]dndq k\psi u/] <u>@</u>= ; tľ\$f]k¢f� #= asf0@fsf]kofu \$= **%**= l; :g'/l; :g'nufotsf ag:kltsf]kφfψ ^= c; /fsf]kbfu &= v/fglsf]k\u00fbfl *= d]fsf]kþflu Ittkftlsf]kbfu (= !)= v; fql\$f]k\pf\[$xn f[j f j]^{r} f/sf]k \phi f \psi$!!= <u>@</u>_ afenfsf]k\psi\u n; q jf n; q; tī cGo ag:klt ld; f0{kbfl} **!**#= !\$= Kofhsflk\pf\li !%= ufhe\fsf]k\psi\u !&= kf0{**y**\$f]k\$f**]**k\$f**]** !*= 16Dd\(\bar{J}\)\signif\(\bar{L}\) !(= hfnl kmhsflkbflu @)= uf0a:tsf]bwsf]k\pfile @!= ; okqlsf]k\pf\[klbgf if klbgf nufot co ag:kltsf]kbfl @@<u>-</u> uffifsf]kbflu @#= @\$= xdfn enfn-@ sf]k\pfu @%= || || W df6f]leq al; cfqnd0f ug]/fy, sl/f Joj:yfkgsf]nflu k\pfy V= ul/q]:yflqo klj lwx? ljleGgjg:kltx?sf]ld>0fsf]k\pfi lkgsflk\bf\u <u>@</u>= 5fkfsf]kbfu #= stslsfjkftsfjkøfu \$= 16d/sf]k\psi\u **%**=

^=

uf0e}Lsf]lk; fasf]kbflu

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/ftf]df6f$f]k\psi\u00f4
      *= sf7sf]whfsf]kofu
            ds\sf]lk7f\sf]k\psif\ullet
      !)= v; fglsf]køfu
            asf0qf$f]k\pf\pl
     e08f/0fdf nfllq]/fil sl/f Joj:yfkqsf nflu k\(\phi\)fil ul/q]
U=
      :yflgo kljj lwx?
            lileGg jg:kltx?sf]alpmsf]thsf]k\psf\u00e4
      ļ=
            afenfsf]køflu
      <u>@</u>=
      #=
            gldsf]kþfu
      %=
^=
            v/fgLsf]kofu
            16d/sflkbflu
            asf0gfsf]køfl
      &=
            ljleGg jg:kltx?sf]; s$f]kftsf]k\psi\psi
            uf0\sf]ux\text{Esf]k\phif\text{l}
      !)= rgsfjkþflu
      !!= afnjfsf]k\pfi
      !@= dl/rsf]kþfjj
 lgisif{
 ; Gbe{; fdfulx?
```

afnl; #If0fsf:yfglok|jlwx?

s_ hdlg dfly af) la?jfdf cfqmd0f ug[/f]u, sl/f Joj:yfkgsf]nflu k|of]u ul/g]:yflgo k|j|wx?

!= gldsf]køfy

- !=! gldsf]afqmf]x6fP/ lbpn dfq hDdf ug[/ ltgnf0{hfff]jf uf[0{8}/df lkw] dl; gf]whf]agf0{lgDg dfqfdf k\phi[\pi] ug[.)=\—!=) lsnf]\phi[\phi] dgldsf]lbpnsf]whfi]\phi[0{Pp6f kftnf]sk8fdf kf\pif]kf/L !@ 306f ; Dd @) ln6/ kfgldf 98\pifpg]/ ; f]9fl8Psf]kf\pif]f0{kfgldf /fd/[L lgrf\pi]. o; kl5 ; fa\pisf]@=) uf[\phi] whf]ld; fP/ ; f]gld kfglnf0{ /fd/[L rnfpg]. ca o; nf0{af\pila?j fdf sl6gfzs kbfy\pif]?kdf k\phif] ug{; ls65 -60f\pifg]@)\pik_.
- !=@ gldsf] alpaf6 affmf x6fpg' Tolt ; lhnf] 5g . ctM ! lsnffld alpnf0{hflff]jf uf0{8/df dl; gf]u/L lkw/ whf] agf0{Pp6f kftnf] sk8fdf kfsf] kf/L !@ 306f ; Dd !) ln6/ kfgldf 98&fpg]/ ; f] 9fl8Psf]kfsfnf0{kfgldf /fd/L lgrfg.[. o; kl5 ; fagsf]@=) ufd whf] ld; fP/ ; f] gld kfglnf0{ /fd/L rnfpg]. ca o; nf0{ affla?j fdf sl6gfzs kbfysf]?kdf kffl ug{; ls65 -6oflkfg]@)%&_ .
- !#= gldsf]kmaf6 w]}k\$f/sf sl/fx? dfg{jf x6fpg; lsG5 . h:t]nfxl,
 wfgsf]kft vfg]sl/f, aGbfsf]ujf/f] vk6]sl/f, kft j?jf, km 5}b]
 sl/f, wfgsf]ujf/f]cflb . kfs\$f]km jf uBfnf0{hDdf u/] aflx/sf]
 af]mf x6fP/ 3fddf; sfpg]. /fd/l; s\$f]alpnf0{afFsf]6f\$/L, 8fnf]
 af]f h:tf; Vvf efBfdf; //lft; fy /fVg]/ cfj Zostf cg; f/ lemsl
 whf]agfP/ lk:g]. s/lj @ chhl uBfnf0{lk;] @ dfgf kfgldf 3f]g].
 /fd/l 3f]n] s/lj @\$ 306f; Dd To; }/fVg]. csf[lbg pQm 3f]nnf0{
 sb} sk8f jf hfnln] 5fg] lyu|Psf] efunf0{ x6fpg] / enf]nnf0{
 sl6gfzs laifsf]?kdf k\pf]u ug[. o; n] afnl la?jfdf nfllg] w]}
 k\pf/sf sl/fx?nf0{lgoGq0f ub\pred . tof/l enf]nnf0{nfdf]; do; Dd
 k\pf]u gu/l To; }/fvl 5f8\pred xb\pred -; fdbflos sNof0f tyf lj sf; ; #yf,
 @)\@_.

- !=\$= gldsf]u\(\partial f\) af6 tof/ u/lg]lj iffbl clt /fdf]x\(\tilde 5\) tfklg slxn\(\partial f\) u\(\partial f\) gkfPdf gldsf]kftnf0\(\partial k\) laifsf]?kdf k\(\phi f\) ug\(\partial \); ls\(\partial a\) ln6/ hlt kfgl ld; fpg]. kftsf] xl/of] /\(\pu\) kfgldf gcfp\(\partial f\) ; \(\partial d\) gcfp\(\partial f\) ; \(\partial d\) kftnf0\(\partial k\) eff\(\partial f\) gcfp\(\partial f\) ig\(\partial d\) kftnf0\(\partial k\) ffpl\(\partial f\) eff\(\partial f\) gcfp\(\partial f\) ig\(\partial d\) kftl\(\partial f\) gf\(\partial f\) kftnf0\(\partial k\) ffpl\(\partial f\) kftnf0\(\partial k\) ffpl\(\partial f\) eff\(\partial f\) ig\(\partial f\) eff\(\partial f\) ig\(\partial f\)
- !=%= gldsf]! lsnflufd kftnf0{!) nl6/ kfgldf ld; f0{ sl/j !@ 306f hlt lehfP kl5 pQm kfglsf]enflnnf0{5sl\f wfgsf]ujf/f] kn8\s]sl/f, kft j ?j f, kt/f] 8fF slxg]9\; l, a] f/sf]h\sf, sfqnf km, l\sf]vk6]lgoGq0f x\(\frac{1}{3}\) -e08f/l, \@)^#_ .
- !=^= gldsf]@ lsnf]ufd whfdf !^ bl]v @) ln6/; Dd kfgl ld; f0{Ps b0{/ft lehfP kl5 Tof]enfjhnf0{sk8f j f hfnldf 5flg]. o; /l agf0Psf]! ln6/ enfjhnf0{@) ln6/ kfgldf ld; f0{km]l kftnf] kf/] kl5 sl/f nfu\$f] la?j fdf \$-% lbgsf] km/sdf of] enfjh 5lskbg]. pQm enfjhn] afd la?j fx?nf0{ xfgl k\u00e4ofpg] sl/f km6\u00e4offfx?af6 afnlgfnlnf0{ arfpg ; ls65
 - -; fdbflos sNof0f tyf lj sf; ; :+yf, @) \(\mathbb{#}_\).
- !=& Ps lsnflufd gldsf]xl/of]kftnf0{!) ln6/ kfgl ld; f0{#—% lbg; Dd skfpg]/ o; af6 aGg]enfl lgsfnl afnldf 5sgj]. o; af6 xfglsf/s sl/f km6\text{\text{bf}} afnlgfnlnf0{\text{arfpg}; lsG5 -; fdbflos sNof0f tyf lj sf; ; :\text{\text{yf}, @}\%\#_.
- !=* gldsf] xl/of kftnf0{ kfgldf pdfn] klg gldsf] enfih tof/ kfg{ ; lsG5 . kfF ln6/ kfgldf Ps lsnf]lfd tfhf gldsf] kft kxjhf] geP; Dd pdfNg] o; /L pdfNbf glddf ePsf]; a}sl6gfzs kbfy{? kfgldf hfg]xG5 . To; enfihnf0{lr:ofP kl5 ; knf kfgldf ld; f0{af} la?jfdf 5ls{bgfn} xflgsf/s sl/f kn6\text{bfEffx?af6} afnlgfnlnf0{ arfpg ; lsG5 . -; fdbflos sNof0f tyf lj sf; ; :yf, @)\#_ .
- !=(gldsf]; \$\\$f]kft ! |snf]ufd !) |n6/ kfgldf !@ 306f |ehfP/ To; sf] enffh 5s\{\gammafn}\wigsf]ujf]vfg]sl/f /f\\$yfd x\(\frac{1}{5} \kf\)\\nathered{n}\, @)^\\$_.

- !=!)= gldsf]bfgf Ps chhl, !) Isnfijifd gldsf]kft, cfwf Isnfijifd gldsf]
 8fF jf h/f / ! Isnfijifd j]f/ /fdf] E Ik;]] !@ In6/ kfgldf
 Id; fpg]. o; /L agfPsf] Id>0fnf0{s}L; do ef8fdf /fv] pdfNg]/
 s}L; do 708f agfP/ kftnf]sk8fn]5fG]. o; /L 5fglPsf]enfijnf0{
 \$-% xKtf kgM Ps ef8fdf /flv To; kl5 km]L Ps k6s sk8fn]5fg]
 5gffi]w]}k\$f/sf r'; fxf sl/f / ef0{; /fij ; d] IgoGq0f xG5 . o; /L
 tof/ ul/Psf]enfij tlg bljv & Ibgsf]km/sdf 5bf{k\epsilon}fk\epsilon f/L xG5 kf\epsilon, @)^\$_.
- - -t/sf/L lj sf; dxfzfvf, @)%!_.
- !=!@= gld jf asf0@f\$f]kft @ lsnf] n; g @ lsnf]; okql @ lsnf] v'; f@l @
 lsnf] / cfn; sf] tjh @ ln6/ . ol ag:kltx?nf0{sf6]/ 6qnf kfl/65 .
 6qnfx?nf0{cf]vndf sl665 . s6]/ ag\$f]ag:kltx?sf]nbfdf cfn; sf]
 tjh ld; f0@5 . tjh ld; f0; skl5 laiffbl dnd h:tf]a6b5 . of]laiffbln]
 slkmsf] uj f/fjhf0{lgo@q0f u/\$f]kf0@sf] 5 . klxn]sf08 Pj +xfEfx?
 v; f[] sk8f jf h6sf] af]fn] 3fo] ; knf ul/65 . sf08 xfEf ; knf
 e} skl5 dnd bln65 . of]ebfdf ! k6s / /ftf]df6f]/ uf0&f]cfnf]
 uf] / a/fj / dfqfdf ld; f0{ roj a} fvdf ! k6s kofi] ug]ul/65
 -P; =P; =Pd=kl=, @)%(_ .
- !=!#= gldsf @)) uf|d xl/of kftnf0{ buNRofP/! ln6/ kfgldf!@-!% 306f; Dd 98\text{bf}/ kfkt ePsf] /; n] pkrf/ u/\stfl -kto\struct\s

@uf0j:tsfjdndq k\phij u/j

- @=! uf0{:tsf]! ln6/ uxfE!) ln6/ kfgldf -!:!)_ ld; fP/ kφfJu ubf{
 :Sj fo; -hlsgl km; l{ sf]wh]9; l /fJusf ; fy}vk6] r'; fxf / nfxl
 sl/fx? lgoGq0f ug{; Sg]kf0fesf]5 -e08f/l, @)^#_.
- @=@ Ps dfgf uf0\sf] ux\df & dfgf kfgl xfn] 5s\ff r\g] nfxl tyf ent; Nsl/f / nfe]sl/f lgoGqOf xG5 -kf\hat{p}, @)^\\$_.
- @=\$ uf0&:tsf]dndq hDdf u/L To; df k/fgf]sk8f lehfP/ en08&fPdf
 wfgdf nfUg]kt]f]sL/fx? To; df cfslif& e0{enDdG5gV ltgLx?nf0{
 ; sng u/L gi6 ug{; lsG5 .
 -e08f/L, @)^#_.
- <code>e% uf0&f]uxle ! efu / kfgl % efu ld; fP/ agf0Psf]3fjh 5s&fn]nfxl, nfe]/ df06 lgoGq0f xG5 . km; l{kl/af/sf t/sf/L afnldf nflg]whf] 9; l /fll lgoGq0f xb]bllvPsf]5 -e08f/L, @)^#_ .</code>
- @=^= uf0&f]! Isnflufd; \$\frac{1}{\text{sf]uf]}/df!% uf|d; \text{tl{Id; fpg]} / To; nf0{
 Pp6f efBfdf /fvl wj fpg]/ of] efBfluf0{t/sf/lsf]jfd dgl /fVgfn]
 w]\text{p}; f]xflgsf/s sl/fx? efUb5g\of db\frac{5}{\text{g}\of]kllqmof kljo\frac{5}{\text{xKtf}}
 bf\text{xflofpq]-e08f/l, @)^#_.
- @=& uf0\(\xi\)f] uf]/ / ux\(\text{E}\)df |r\)b\(\xi\)f\(\frac{\fra
- @=* al; Is=uf= /fdf] \(\) kfs\(\) f]s\(\) kfi]6 dnnf0\(\) Pp6f sk8f jf h\(\) sf]y\(\) f
 leq \(\) fIv d\(\) af\(\) Ps kfyl uf0\(\) f]lk; fj \/ rf\/ kfyl kfgl dl; f0\(\) Pp6f 8\(\) ddf \/ f\(\) g]. dfly eg]cg\(\); f\/ tof\/ ul\/ Psf]y\(\) f]nf0\(\) 8\(\) leq \/ fIv 8\(\) fpg]\/ k\(\) o\(\) lbg To; y\(\) f]nf0\(\) 8\(\) leq tn dfly ub\(\) rnfpg]
 \(\) lbgdf tof\/ x\(\) 5 . o; \(\) l tof\/ ePsf]! efu s\(\) s\(\) lfidf! efu g\(\) kfgl

- ld; fP/ &-& lbgsf]km/sdf k\psi_ubf{cfn' tyf ufjhe\)8f df nfl\g] 89jf/f\u00f4 &) k\text{|tztn]sdl ePsf]kf0\(\psi_f\).
- -; fksfff, @)^@_.
- @=!)= %)) ufid af@mf] %)) ufid s\text{!sl, %)) ufid v\; f\text{gl, %)) ufid ; tl{/ %)) ufid l6Dj /sf]kftnf0{6qmf 6qmf u/l 8\text{ddf /fVg]/ To; df % In6/ uf0{e}\text{lsf] lk; fj | ld; fpg]. @@ | lbgkl5 | laiffbl | tof/ x\text{05. ! efu 8\text{daf6 | lgsfn\text{sf] emf}\text{hdf * efu | kfgl | ykl | k\text{hf\text{l} | ug\text{}; |s\text{05. o; sf]} | k\text{hf\text{l} | af6 | wfg | tyf | ux\text{Bf | nfllg]89j f /f\text{l} | lgo\text{q0f, ; fgf | tyf | g/d | 5fnf | ePsf | sl/fx? | d/\text{sf}\text{lkf0\text{hf}]. df6f\text{dlf | a:g]xflgsf/s | sl/f | /ftf]sldnf / | eml; nsl/f | efu\text{sf}\text{lkf0\text{hf}]; fksf\text{hf}, @)^@_.
- @=!!= Ps In6/ uf0\sf] ux\text{Edf % In6/ kfgL Id; f0\sqrt pQm Id>0\fdf I; :gf] Itt\text{kftL, agdf/f, s\text{sL, Iv/f\text{cflbsf kft / 8f\text{Fx?nf0\sqrt{; fgf\text{Ffgf 6\psi\text{nf0}} agf0\sqrt pQm enf\text{nf0}\df Ps x\text{kft 8\text{j} f0\sqrt{k\text{kft ePsf}/; nf0\sqrt{afnL la?j fdf 5s\text{sfn] kf\text{pNh}; f] Is/fx?sf] Igo\text{q0f x\text{\$\text{t}\$5 -afnL ; \text{Af0f Igb\text{\text{\$\text{t}\$gfno, @)^\$.}}
- @=!@= uf0{e}+lsf]dqn]8fF slxg]/fysf]/f\$yfd ub\$. o; n]sk xb; Dd nfxlnf0{ klg lgoGq0f ub\$. klxnf Ps rfyf0{ kfgl Pp6f ef8fdf /flv65 / kl5 ! ln6/ dq ld; f0{5 . o; nf0{s}l lbg; Dd TolQs} /flv65 . hlt w]}lbg /fVof]plt /fdf]x65 . ; fgf]la?j fdf ! ln6/ dq !) ln6/ kfgldf ld; f0{kφfy ul/65 . 7hf]la?j fdf ! ln6/ dqdf % ln6/ kfgl ld; f0{kφfy ul/65 . #_\$ lbgsf]km/sdf cfj Zostf cg; f/ kφfy ug{; ls65 -P; -P; -Pd-kl-, @)%(_ .

@=!#= wfgdf nflg]JofS6]/on 89jf /fjusf]IgoGq0fsf]nful wfgsf jffjx?df @) ufd uf0ff]uf] / k|t ln6/ kfgldf 3fjhl 5sfg' kbf -sff ; \ref tyf ; ~rf/ sfb,|@)^@_ .

#= ; tl\$f]k\pf\p

- #=! ; It&f ; \$\frac{1}{5}\$ kft of 8fF u/L hDdf ! Isnfijifdnf0{!% In6/ kfglDF@\$ 306FDd 98\text{tof} To; kI5 ; f] Id>0fnf0{Pp6f kftnf] sk8fdf 5f\text{tof} clg Tof] 5flgPsf]; 'tl{kfgldf Ps d7l ; fagsf] whf] Id; fP/ /fd/L 3ff\text{to}; o; kI5 of]3ff\text{tof} \text{tof} \text{to
- #=@ Ps lsnfilid; tl\(\xi\)f kft / 8fF 6qm kfg\(\frac{1}{3}\) \(\limes\) ln6/ kfg\(\text{ldf}\)^) uf\(\delta\); fig ld; fpg\(\frac{1}{3}\)/; tl\(\xi\)f\(\grac{1}{3}\); a\\\eqrue{1}\) efunf\(\frac{1}{3}\)/ a\\\eqrue{1}\) efunf\(\frac{1}{3}\)/ a\\\eqrue{1}\) efunf\(\frac{1}{3}\)/ a\\\eqrue{1}\) efunf\(\frac{1}{3}\)/ a\\\eqrue{1}\) efunf\(\frac{1}{3}\)/ a\\\eqrue{1}\)/ a\\\eqrue{1}\\\eqrue{1}\)/ a\\\eqrue{1}\\\eqrue{1}\)/ a\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\)/ a\\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\\eqrue{1}\\
- ##= dl; gf]6qnf u/l tof/ agf0Psf]! lsnfJufd; tl\$f]8fF / kftnf0{!% ln6/ kfgldf@\$ 306f 98\text{\text{of}} To; df #) ufd hlt g/d; fj \text{\text{g}} 3ff]\text{\text{g}} sk8fn]5fgl ag\text{\text{s}}f]enf\text{\text{n}}nf0{nfe}\text{\text{a}} a\text{\text{b}}fdf nfl\text{\text{g}}]nfxl lgo\text{\text{q}}ff ug{k\text{\text{\text{p}}}\text{\text{u}} \text{\text{u}} \text{\text{c}} \text{\text{c}} \text{\text{g}} \text{\text{c}} \text
- #=\$= @)) ufid; 'tl&f]whf]%)) ufid v/fgl,@)) Id=n=dl&th tyf@))
 ufid; fj gnf0{Ps}ef8fdf /fv]@ In6/ kfgldf Ikm6g]. Ps In6/ tof/l
 emfindf!) In6/ kfgl Id; f0{&-& lbgdf t/sf/l afnldf 5g]. o; sf]
 k\phiflyaf6 sfpnl, a\text{lbf}; d\text{xsf afnldf nfllg]kft r':g] sl/f eufPsf]
 ufine()8fsf] km vfg] uj f/f] efu\phif] /fof] tyf sfpnlsf] a\text{df} { vfg]
 sl/fx? x6\phif] sf\text{mf tyf s/hfdf cf}+ kfg{lemufx? Effu\phif]kf0\phif] ; fksf\text{df},@)^@_.
- #=%= ; 'tl\sf]kft @)) ufd, v'; f\stacksf]whf]!)) ufd, Kofhsf]ufgf #)) ufd, n; \text{gsf] kf\stackst} @)) ufd, ; fj\text{g} #) ufd / kfgl \\$ \ln6/. ; fj\text{g} / ; 'tl\stackst\$f0{\fotats} cfwf 306f; \text{Dd ksf0{\fotats} / @\\$ 306f; \text{Dd Ir; f] agfpg}

/flv65 . v'; fgl, kofh / n; gnf0{dl; gf]ul/ lkw/] pQm; 'tl{kfglsf] enfindf /flv65 . To; kl5 /fdf] u 5flg65 . of]laiffbl agfpg]lalQs} k\phflu ug{kb\{\dagge} . ! efu laiffbldf \\$ efu kfgl ld; f0{k\phflu ul/65 . la?jf; f/\\$f]!% lbgkl5 dfq o; sf]k\phflu ug{kb\{\dagge} . km l6kg' e6bf ! -@ lbg cl3; Dd o; sf]k\phflu ug{; ls65 . of]afg:klts laiffbl nfef{ nfxlnf0{k\phfli sf/l bl\phfly Psf] 5 . o; n] ufine\partition{\dagge}8fsf] uj f/finf0{k/} lgoGq0f u/\\$f]5 . nfxlnf0{eg]\&% k\partition{\dagge} kltzt; Dd lgoGq0f u/\\$f]kf0\partition{\dagge}sf] 5 -P; \Pd=kl=\@)\%(_ .

\$= asf0**g**f**\$**f**]**k**\phi**f**y**

- \$=! asf0@ffsf]!) blv @) efu xl/of]kftsf]whfinf0{!)) efu kfgldf ld; f0{!@ 306f hlt lehfP/ 5s@fn]a6bfsf]nfxl, wfgsf]kn8\$s]sl/f, wfgsf]94j]sl/f lgoGq0f ug{; lsG5 -s@ff ; rgf tyf ; ~rf/ s@b,| @)^@_.
- \$=@ asf0@ff\$f]; \$\fi kft / kmx?nf0{sb] ag\f]whf]! Isnf\f\dnf0{!} In6/ kfgldf @\\$ 306f 98\dfP/ sk8fn] 5fgl tof/ ul/Psf] enf\dnf0{!} k\phi\f\ u/] klg a\f\df\text{sf}]k\t\nlsf]nfe\text{?sf}]lgo\f\df\df\ ug\{; Is\f\df\} -t/sf/l Ij\sf; dxfzf\f\, @\%!_.
- \$=#= asf0\$f\$f]kmsf]% b¶v !) efu whfħf0{!)) efu kfgldf ld; f0{!@ 306f hlt lehfP/ afnldf 5s\$fn]aGbfsf]nflx, wfgsf]km8\$]sl/f, wfgsf]9u]sl/f lgoGq0f ug{; lsG5 -e08f/l, @)^#_.
- \$=\$ v[sf] lar lardf asf0{ff} nufpgfn] To; af6 xfglsf/s lasif(f xtg] xtbf afnlnf0{; /IIft /fVg; lst5 -e08f/l, @)^#_.

%-l; :g'/ l; :g'nufotsf ag:kltsf]kфfjl

- %=! I; :g'%)) ufd, Ittkftl %)) ufd lyr] ! In6/ kfgldf lehfpg]/
 enffh lgrf]] 5fgg]. 5fg\$f] enffhdf @%) ldInIn6/ uf0{e} sf] uxE
 Id; f0{5bf{nfxl, ldInau, sIn\$l/f, lyk; sl/f lgoGq0f xG5 -kf}h,
 @)^\$_.
- %=@ I; :gf\sf]sInnf 8f\forall / kftnf0\{Pp6f ef\forall f\df kfgl /fvl @\\$ 306f ; Dd lehfpg]. of] kfglnf0\{ h\forall s laiffblsf] ?kdf k\phf\forall u/l nfxl / ; h\forall h\forall f0\{lgoGq0f ug\{; lsG5 -e08f/l, @\^#_.
- %# l; :gf\f\[\f\] & lbg ; \text{Dd cldIng lbg} / \f\ \text{efu kfgldf ld; f0} \] \[55\f\[\f\] fn\[\f\] sldnf, \(\text{nfe}\] lgo\f\[\f\] ug\[\f\]; \| \f\ \] \[-e\\(\text{8f/L}, \(\ell \) \rangle \f\].
- %#= I; :gf]! s#hl=, C; /f]! s#hl=, Ittkftl ! s#hl=, af@mfsf]kft ! s#hl=,
 agdf/f ! s#hl= nf0{Pp6f 8eddf /fVg]/ To; df uf0{sf]lk; fj !) In6/
 /fVg]/ 8ed aGb u/L lbg]. k*tos lbg Ps k6s To; ef8f]leq /x\$f]
 j :thf0{/fdf] u+ rnfpg]. # xKtf kl5 lj iffbl tof/ xG5 . o; /L tof/
 ePsf]emfhnf0{5fg]/ slnnf]la?jfsf]nflu !) In6/ kfgldf ! In6/
 emfh ld; fP/ :k]ug[/ la?jf 7hf]ePdf * In6/ kfgldf ! In6/ emfh

ld; f0{:k]ug[. o; enfin]la?jfdf nfllg]nfxl, kft vfg]sl/f, 8fF sf6x]sl/fsf]lgoGq0f ePsf]kf0f2sf]5 -; fksf6f, @)^@_ .

^= **c ; /ˈf̞͡͡sf]kþfij**i

- ^=!= c; /fsf @) ufd xl/of kftnf0{buNRofP/! ln6/kfgldf!@-!% 306f; Dd 98\sfP/ kfkt ePsf] /; n] pkrf/ u/sf] -kfos xktfdf Ps k6ssf b/n] \$-% k6s; Dd_ a6bfsf\text{eldf nflg] sl/fx? h:t\square a6bfsf] k\tal, e6df; sf] enl; \nsl/f]; \tal\sf] kft vfg] nfe]/ kl7df 0\sf]cfsf/ ePsf]k\talsf] lgoGq0f ePsf]kf0\talsf]5 Gof\text{kfg]@)%\talsf}.
- ^== C; /fsf]! IsnfJufd xl/of]kftnf0{dl; gf]u/L lkw/]! In6/ kfgldf ld; f0{# lbg; Dd -lbpFf] 3fddf; dt /fvl_ /fv/] kfkt ePsf]uf9f /; df c? kfgl ld; fP/ To; nf0{ @%—&% kltzt; Ddsf] uf9f agf0{ pkrf/ u/sf]a6bfsfel; dxsf la?jfdf nfllg]nfxlsl/fx?sf]lgo6q0f ePsf]kf0fesf]5 -6ofkfg]@)%&_.

&= v/fgLsf]køfy

- &=! xfdf]ufpB/df klxn]b]v g}afnlgfnlsf]/fjJsl/f lgoGqOf tyf dnsf] ?kdf v/fglsf] k\phfiJ x\phrighty cfPsf] 5 . v/fglsf] whf] vf; u/l t/sf/l afnldf 5s\phrighty f\phrighty lsf] k\taul., sf\phrighty km, l\partial vk6] nfxl sl/f, ; Gtnfsf]kft vGg]sl/f tyf 9\hat{l} lgoGqOfdf k\phrighty fsf/l xG5 -kf\partial h, @)^\s_.
- a) fv blv efb|; Ddsf]; dodf pkmg]vk6]sl/fn]la?jfsf]kftnf0{
 l5ofl5of agf0{gf\seta; fg ub\seta. laxfg lzt cf]fpg'cufj}! efu sf7sf]
 v/fgl /! efu s[if rgsf]ld>0f agf0{afnl gfnldf 5s\setaf pkmg]vk6]
 sl/fsf]lgoGq0f x\setaf. -s[if; \text{rgf tyf; ~rf/ s[b]@)^@_.
- &# afnjf jf sf7sf] $v/fglnf0{jf}sf]jl/kl/ 5l/lbgfn] z \psi_l/f / lrkn_l/fnf0{af/ a6bhsf]sfd ub\{ -e08f/l, @)^#_ .$
- &=\$; knf v/fgl laxfg la?j fdf 5gfft]nfxl, v'; fglsf]k'tnl, sfqnf, km; l\star{}
 vk6] kft v(g]sl/f x/fpl=5 . df6fdff 5gfft]knlt sf6\star{} / cf}-f lgo6q0f

- x65 . IrKn] sl/f, zv+sl/f klg zl//df v/fglsf] whf] 6fF, P/ 3; ϕ ; Sb ϕ g\e08f/L, @)^#_ .
- &=\(\times \text{V/fgl. #)} \) ufid \(\text{nf0} \) for \(\text{fgl. agfpg' kb.} \) . \(\text{o; nf0} \) \(\text{e auk} \) do \(\text{d6/sf} \) \] \] \(\text{Jof8df Psgfzn] kg. alg \(\text{lul} \) \(\text{Joj : yfkg ub.} \) \(\text{o; n] /ftf] \) sldnf \/ \(\text{nfxlnf0} \) \(\text{s. b; Dd Joj : yfkg u/\structure{sf}5 -P; =P; =Pd=kl=, @) \(\text{v} \) \(\text{L} \)
- &=^= lrof lunf; sf]! lunf; v/fgl / rg ! lunf; nf0{\$ ln6/ kfgldf 3fjh] 6xlsg lbg]/ 6xlsPsf]enfjh 5gffh]km, l{/ sfqnfdf nflg]cf}+f lgoGq0f xG5 -e08f/l, @)^#_ .

*=d]fsf]k\pfi

- *=! d]fsf]! |snf]ufd tfhf kftsf]6qmfnf0{!) | ln6/ kfgldf |d; f0{To; df @ rDrf d|\$tjh / s]k ; fj g |d; f0{Ps /ft |ehf0{agf0Psf]|d>0fnf0{ bf}f]|bgdf k\pf]u ubf{km8\$] nfxl sl/f |goGq0f ug{; |sG5 -e08f/l, @)^#_.
- *=@ d]fsf] kftsf] 3fjhn] skmlsf] 89jf / kfp8/L ldN8&'
 -wh]9; L_/fju h:tf 9; laf6 xg]gf\$; fg nf0{lgo6q0f ub\$.! lsnfjufd
 /fdf] u+ lkwr\$f]kft! ln6/ kfgldf 3fjg]/ lgrf\$j]jf sk8fdf 5f6g].!
 ln6/ emfjh \$ ln6/; fag kfglsf]3fjhdf ld; fpg]-!^ ufd; fjg \$ ln6/
 kfgldf ld; fP/ agfpg]. o; l/ tof/ ePsf] emfjhnf0{ /fju nfu\$f]
 la?jfdf 5s\$j]-; fdbflos sNof0f tyf lj sf; ; :yf, @)\@_.
- *# d'; f lgoGqOf ug{d]fsf];; fgf 6qmfx? v]tdf cfnLsf]glhs /fvL lbg]. d'; fn]d]f vfbf d]fdf ePsf]/; fog kbfyfi]d'v leqsf]tGthfO{ 3fp agfO{gf}; fg k¥ofpF5 -e08f/L, @)^#_.

(= lttkftlsf]køfu

(=! Ittlftlsf]enff ! efu / # efu kfgl ldnf0{5s@fn]nfe]enl; Nsl/f / nfxl lgoGqOf xG5 -kf發f, @)^\$_.

- (=@ Ps Isnf] Itt[ftl nf0{ /fdf] + IyRg] / o; nf0{ % In6/ kfgldf Id; fpg]. o; af6 5fg] cfPsf]/; nf0{agfpg]IalQs}k\pf] ug{kb[\$. o; n]enl; nsl/fnf0{lgoGq0f u/\stacksf]kf0Psf]5 -P; =P; =Pd=kl=, @)%(_.
- $\begin{tabular}{ll} (\# tlt] fills (a) & tlt] fills (a)$

!)= v'; fgL\f]k\pf\f

- !)=! kl/f]v'; fglsf]lk; \$f]whf]%) ufd nf0{Pp6f efBfdf! ln6/ kfgldf
 /fvl !) ldgd ; Dd pdfNg] / To; nf0{; lpfpg]. of] lr; f] enfinnf0{
 laxfg!) ah]b[v lbp; f]@ ah]; Dd 5bf{() k|tzt nfxl lgo6q0f
 ePsf]kf0lpsf]5.
 - -e08f/L, @)^#_.
- !)=@ lk/f]v'; fglsf]!) uf|d whfdf! In6/ kfgl Id; f0{/fte/l lehfpg]/
 efihlkN6 t/sf/l afnldf 5sgfn]nfxl sl/f lgoGq0f xG5. o; i/l!
 efu v'; fglsf]whfsf]enfihdf % efu ; fag kfglsf]k\pfil ubf{cem a9l
 k\phifj sf/l kf0l\prisf]5 -slif; \rightarrow gf tyf; ~rf/ slb\phi(@)^@_.
- !)# /fof]afnldf nfllg]tf]lsf]nfxl lgoGq0f ug{! ln6/ kfgldf !)) ufd whf]u/] lkg\$f]v'; fgl /fvl a] /l rnfP/ sk8fn]5fg] To; enfhdf % ln6/ ; fj g ld; \$f]kfgl xfn] kftnf]kfg{kb\$. -% ln6/ kfgldf !) ufd ; fj gsf]6qmf uNg]u/l ld; fpg'kb\$. _ jf b0{lrof rDrf a/fa/sf] dl\$tjhdf !)) ufd lkg\$f] n; g ld; f0{ @\$ 306f grnf0{ /fVg]. To; kl5 o; nf0{!) ufd ; fj g 3lnPsf] cfwf ln6/ kfgldf ldnfP/ sk8fn]5fgl t\$f/ ePsf]enfjhdf @) ugf kfgl ldnf0{kftnf]ug{kb\$. o; /l kftnf]u/l tof/ ePsf]enfjhnf0{nfxl nfu\$f]/fofdff 5/dff nfxl sl/f lgoGq0f xG5 -t/sf/l lj sf; dxfzfvf, @)%!_ .
- !)=\$ tf]lsf]s/f]=]sl/f÷WjfF]sl/f lgoGqOf ug{\$) ufd; fjg 3f]nPsf]\$ ln6/ tftf]kfgldf @ kf]l ldl; Psf]n; gsf]n]f]/ @ lrof rDrf e/L v'; fg[lsf]whf]ld; fP/ sk8fn]5fgl enf]h tof/ ug]/ pQm enf]hnfO{ sl/f dfg{af}x?df 5g]-t/sf/L lj sf; dxfzfvf, @)%!_.

!) # Ih/] v'; f@lsf] l98L cfwf dfgf, n; bsf] kf@l ! lsnf] l6d/sf] kft ! lsnf]; okqlsf] d66f cfwf lsnf] / s06sf/lsf] u\Bf ! dfgf .; a\} ag:kltx?nf0\{ dl; gf] ul/ lklw\B / 5\Sf5\S\} /; lgsfln\G / ; a\} /; x?nf0\{Ps\}7fp\Bf ld; fP/ la?jf; fg\{e\bf cfwf 306f cufl8 @ efu laiffbldf ! efu kfgl /fvl la?jfsf]h/f lehf0\G . o; n]sfpnl a\Gf afnlsf]a\gf\{slxg]/f\pinf0\{/fsyfd u/\sf1\kf0\Ps\}15 . la?jf pd\g\] lalQs\} k\pf\pi u/\ghf /f\pi lgo\Gq\fdf o; sf] k\phifjsfl/tf a\g\lambda x\G - P; \P\; \Pd\kl=\@)\%(_ .

!!= xn@f]jf j] f/sf]k\pf@

- !!=! xn\bf]! Is=u\feright= \fd\lambda \lambda - !!=@ xn\f] cfwf \lsnf\f\dnf0\{d\; gf] u/\f\ sf6\f\] / @ \ln6/ \kfg\\df /fte/\ \lentre{P} / \f\\g]. \ \lor \nf0\{\f\d\[\l\] \sig\] @) \ \ln6/ \kfg\\df \ld; \f0\{\tsf\\\ \afn\\df \k\pf\\\ \upda\[\sig\] \k\tanlsf] \lgo\\quad \text{gof} \text{ ePsf} \kf0\\text{Psf} \sig\] = -e08f/\l, \ @)^\#_.
- !!# Ps Is=uf= lkg\$f]a]f/nf0{\$ Is=uf= v/fgL ld; f0{laxfg I; t k/\$f] afnfdf 5gffn]t/sf/L tyf kmkmhdf nfllg]v/fg]/ffJ lgoGq0f xG5 afnL; Alf0f lgbfzgfno, @)^\$_.

!**@** af**₽nf**\$f]k**¢**f**y**

- !@=@ af\pf\f\)=\% / ! k\tztn\pkrf/ ul/Psf\la?jfsf\kftnf0\{; \t\f\ f\ kft \vfg\nfe\h\gy\fPsf\kf0\propt\sf\\f\ \.

!#=n; ġ jf n; ġ;ư cω ag:klt ld; f0{kቀ፞፞፞፞፞፞፞፞፞፞፞

- !#=! wfgdf nfllg]kft j?jf sd kfg{n; gsf]kfhl lyr] kfgldf ldnfP/ f khf khf sf/L xhf sd kfg{n; hf khf ldnfP/ hf sd kfg{n; hf sd kfhf ldnfP/ hf sd kfg{n; hf sd hfg{n; hf sd kfg{n; hf sd kfg{n; hf sd kfg{n; hf sd hfg{n; hf sd hf
- !#=@ # blv \$ kfol n; g, @ blv # j 6f ; fgf]Kofh, @ d7l ; okqlsf kft /
 @ j 6f /ftf]v'; fgl ld; f0{pdfn/ agfPsf]\$ nl6/ kfglsf]enfh 5sfgfn]
 la?j fdf /; r':g] sl/fx? lgolq0f x65g\e08f/l, @)^#_.
- !## n; g #—\$ kføl, ; okql kmhsf]kft @ d7l, Kofh #—\$ bfgf, kl/f]v'; føl
 #—\$ j 6f, kfgl ! ln6/ . ol ; a}Irhnf0{lkw/] !% bdgø ; Dd kfgldf
 pdfNg] Ir; f]eP kl5 sk8f j f hfnldf 5fvg]. Ps efu To; sf]emfndf
 @—# efu kfgl ld; fP/ sl/f nfu\$f]la?j fdf 5/df w/]}lsl; dsf sl/fx?
 lgovq0f xv5g\; fdbflos sNof0f tyf lj sf; ; :yf, @)%@_ .

!\$=Kofhsf]k\phi[]

- !\$=! Ps Is=uf= sf6\$f] Kofhdf cfwf In6/ pdfn\$f] kfgL Id; f0{ agfPsf]
 enfjnnf0{!% In6/ kfgLdf Id; f0{x/\$!) Ibgsf] km/sdf 5gf[h]sIn]
 sL/f, lyk; , nfxL / ; h; hjhf0{ lgoGq0f u5{ -s[if ; hgf tyf ; ~rf/s[b]@)^@_ .
- !\$=@ krf; ufd Kofh lyr] ! ln6/ kfgldf 3fjhl k\pfij ubf{a6bfsf]yfijn]/fjju lgo6q0f ePsf]kf0fpsf]5 -afnl ; Alf0f lgbfzgfno, @)^\$_ .

!%= uffhe**3**fsf]k\phiff

!^= th; lsf|k\u00f4f\u00e4

!^=! th; lsf]@) ufd kftnf0{ lkg] k|t ln6/ kfgldf ld; f0{ 5sl6f ; Gtnfsf] kft vGg] sl/fsf] cfqmd0fnf0{ sd ug{; lsG5 -sl6f ; l*gf tyf; ~rf/ s[b]@)^@_.

!&= kf0**{y**dsf]k**þ**fy

!&=! $kf0\sqrt[3]{y}$ / ; fj g ld; f0{# ufd k||t ln6/ kfgldf xKtfsf]Ps k6s k\phif\plus ubf{t/sf/l afnldf nflg]pkmg]vk6]; d\xsf km8\xs]sl/fsf]k\xsf[k\xsf]k\xsf[k\xsf] \\xsf[\xsf] \xsf[\xsf] \

! *= 16Dd/sf]k\psi_

- !*=! ufine\fiff nflg]cf\https://fipg]/fip sf]Joj:yfkg ug{! ufd l6Dd/!) ld=\n= kfgldf pdfn] o; sf]@) k\tautenfn agfP/ a\https:// a\https://fip agfP/ a\https://fip sd nflb5 -e08f/L, @)^\#_.
- !*=@ ufine()8f, v; fgL, e06fsf]cf()nfpg]/flu sd ug{!)) ufd l6Dd/nf0{!
 ln6/ kfgLdf /fvL pdfn] % ln6/ kfgL ykL ag\$f]enfindf la?jfsf]
 h/fnf0{! 306f lehf0{; fgf(n]cf()nfpg]/flu sd x65 -afnL; Alf0f
 lgb\grave{g}fno, @)^\$_.

!(=hfnl kmsf]køf@

!(=! hfnl kmhsf]\$)) ufd sdnf]8fF, kft, dgf / kmhnf0{# ln6/ kfgldf ld; f0{cfwf 306f; Dd ksf0{kfs}f]emfjhnf0{; jhfP/ 5skff l; dlsf]; }] wh] 9; L /fju, km, L{ kl/j f/df nfllg] wh] 9; L /fju / j Cbfsf] ktnlsf; ; fgf nfe}{?nf0{ lgoGq0f ug{; lsg] kf0Psf] 5 -slif; }tgf tyf; ~rf/ s]b|@)^@_.

@) = uf0{a: tsf]b\(\frac{1}{2}\)b\(\frac{1}\)b\(\frac{1}2\)b\(\frac{1}2\)b\(\frac{1}\)b\(\frac{1}2\)b\(\f

@)=! uf0\{\(\)f] b\(\) / kfgl a/fj \(\) efu ld; fP/ kfo\(\) @ lbgsf]c\(\)t/fndf kft,
 8f\(\); a\{\) efu leHg] u/l :k] ubf\(\)s\(\)fp, 6df6/, v'; f\(\)fl, h\(\)gl, nx/]
 t/sf/l / ux\(\)fl nflg]; \[\)fl wh] 9'; l lgo\(\)q\(\)f ug\(\); ls\(\)5 -e08f/l,
 @)^\(\)#_.

- @)=@ Ps In6/ kfgldf !)) IdInIn6/ uf0{:tsf] b\u00fc Id; fP/ 5s\u00e9f
 ef0{; af6 nflg] /f\u00fc\u20e72af6 af\u00e9 la?j fnf0{ hf\u00e9fpg ; ls\u00e95 . o:tf]
 s\u00e4fs\u20e7?n]sfpnl / a\u00e9bfsf]kft uhdlhg] kx\u00e\u00e4f]x\u00e9] kftsf]I5s\u00e4; \u00e4ff
 yf\u00e9n]/f\u00e4 nflg glbg / la?j f /fdf] \u00e4 a9\u00e5 e\u00e3g]p2\u00e4on]! In6/ b\u00e4 \u00e\$
 In6/ kfgldf Id; fP/ g; {\u00e4laf6 a\u00e4f{; f/\u00e4f]! dlxgf kl5 :k]ug\u00e4rng
 kf0\u00e4\u00e8f]5 -e0\u00e8f/l, @)^\u00e4_.
- @)# Ps In6/ uf0sf]b\wdf @ In6/ kfgL ykl 5s\gfn]sf\pinf] km; \[\{ \s/\ndfthf}, \v'; f\gtrucktright\], cfn' cflbsf]ef0\[\{ \; \/\fu} \] lgo\(\text{q0f} x\text{G5} -afnL ; \/\delta f\) lgb\[\frac{1}{2}\gfno, @)^\\$_.

@!=;okqlsf]k\pfi

- @!=! ; okql kmhn]sitko sl/fnf0{kl|tsf/ ub\(\) . ct\(\) co afnl; \(\) id; fP/
 o; nf0\(\) nufpgfn] klg ; f] afnlx?df sitko sl/f / hsfx? sd
 nfUb5g\ o; sf kft / af\(\) x? afnl la?jfsf j l/kl/ lkm\(\) lkgfn]klg
 sitko sl/fx? efUb5g\ o; sf kmh / kftx? -! efu kmh / kftdf !)
 efu kfgl_ nf0\(\) kfgldf 98\(\) f0\(\) kf\(\) t ePsf]/; af\(\) la?jfdf 5s\(\) fn]
 klg sitko sl/fx? efUb5g\(\) cof\(\) fg]@)\(\) .
- @!=@ ; okql kmhsf] kft @ d7l, n; g \$-% kføl, Kofh \$-% bfgf / kl/f]
 v'; føl \$-% j 6f lkw] ! ln6/ kfgldf !% ldgø; Dd pdfn] sk8f j f
 hfnln]5f\[
 \text{bg}. 5fg\[
 \text{sf}]emf\[
 \text{hdf Totlg}\text{kfgl ld; f0{nfxl, kt]f]h:tf]r';]
 \text{vfg] sl/f nfu\[
 \text{sf}] la?j fdf 5/\text{bf pQm sl/f lgo\[
 \text{q0f}] x\[
 \text{c5} -kf\[
 \text{sh}]\\
 \text{e})^\$_.

@=klbgf jf klbgf nufot cGo ag:kltsf]kфf

ee=! klbgf ! lsnf]ufd cfnf kftnf0{dl; gf]u/L lkw/] ! ln6/ kfgldf ld; f0{
lbg; Dd lbpFf] 3fddf ; d]; /flv kfkt ePsf]uf9f /; df c? kfgl
ld; fP/ To; nf0{ e%-&% kltzt ; Ddsf] uf9f agf0{ pkrf/ u/sf]
a6bfsfel ; d%sf la?j fdf nfUg]nfxlsl/fx?sf]lgo6q0f ePsf]kf0fesf]
5 -6offkfg] e)%&_ .

@=@ klbgf -afa/L_!)) ufid / lttkftl!)) ufid lkw/]! In6/ kfgldf
8jf0{ dfih/] To; sf] /; 5fig]. o; k\$f/ tof/ ePsf] enfihnf0{
enl; Nsl/f nfu\$f]la?jfdf leHg]u/L 5g{kf}h, @)^\$_.

@#= uffisf koff

@#=! uffifsf !)) uf|d cfnf kftnf0{/fd/|L buNRofP/ ! ln6/ kfgLdf 98\of0{
 kf|kt ePsf]/; n]pkrf/ u/\sf km, L\sf] af\offdf /ftf] vk6\overline{h}] sd If|t
 k\fofPsf]kf0Psf]5 -\off\sfg]@)%\u00e4_.

@\$= xdfn enfn-@ sf]k\pfi

xdfn enfin—@ agfpg cfj Zos ; fdfullx? M

ļ=	c;	! s}hl=
<u>@</u> =	ltt <u>k</u> ftl	! s } hl=
#=	agdf/f	! s ∄ hl=
\$=	l√/f {	! s] hl=
% =	s‡sl	! s } hl=
^=	l; :gf]	! s } hl=
&=	uf0{:tsf]ux E	% nl6/
*=	kfal	!% nl6/

-pQm jfg:klts ljiffbl DofUbl lhNnfdf ; #fInt dfemvs{cf0{k+Pd= s[fs kf7zfnf, nfnlu'f+ cf0{ lk+Pd= s[fs kf7zfnf, /Igrf} s[fs / lj1fg sfo{mddf kl/If0f ul/Psf]}

‰ IJIJw

- @%=! Wfgsf]kftdf /ftf]lvof h:tf]b]vg] ufh ga9g] lv0b}hfg] hlssf]
 sdl -/ft]/fu_ nfudf kφfu ul/; s\$f /[βof]cyjf 6rfif06sf Aof6ksf]
 leq k\$lsf]sfnf]whf]efu 5l/lbPdf l7s x65 -kfβh, @)^\$_.
- @%=@ wfgsf]89jf nfu@lf kfgl 66g kf/]/ I; #f0{ul/lbg] kfgl g66fpg]/f@l a9g kfpb@j -kf\@jh, @)^\$_ .
- @%# cnsqfsf]@ efudf! efu d6ltih ld; f0{nbf]agf0{ gl/j nsf]sf08df /fd/l bNbf ujf]vfg]sl/f lgoGq0f xG5 -slif; \(\text{rgf tyf} ; \(\text{rf/ slb} \) \(\text{@} \)^@_ .
- @%=\$ cfwf eGbf sd ; fagsf] enfith / cfwf rDrf d6ltith @ nL6/ kfgLdf ld; $f0{5s}(fn]w$ }k\$f/sf sL/fx?sf]lgoGq0f xG5 -e08f/L, @)^#_ .
- @## km skfpg] cf}+fsf efn] lemufx?n] ulnof] kbfy{ lgs} dg k/fpg]
 ePsffh]kfgldf clnslt lrgl jf; Vv/ ld; fP/ 3ffh agf0{pQm 3ffhdf
 dfnflyog enffh! ldlnln6/ klt ln6/ kfgldf ld; fpg]/ of] 3ffhnf0{
 af/Lsf] 7fpF7fpElf 5/L lbPdf sl/fsf] k\$ffknf0{sd ug{; ls65 e08f/L, @)^#_.
- @#=^ kmn skfpg]cf}+f sl/fx?nf0{kfglsf]kf; f]agf0{/f\$yfd ug{; ls65 .
 o; sf nflu v}jf/lsf]lar lardf sl/a \$=\% lkm6sf]prf0@tf df6fsf
 srf}f cfsf/sf efBfx? /fVg]/ pQm efBfdf clnslt kfgl ; \mathbf{u}}kfs\rbf{sf}
 cfk, km, l\setaf 6\mathbf{u}fx? /fVg]To; df \%-\& yf\rbf{t} dfnfyfog emf\rbf{h} ld; fpg].
 o; /L tof/ kfl/Psf]emf\rbf{df efn]/ kf\rbf{y}L b\rbf{j}}lsl; dsf sl/fx? cfslif{t e0{dg{yf\rbf{y}lb5g\e08f/L, @)^#_.
- @%=& sfqmf, km, l@f nflg] /ftf] lgnf] v}f] vk6] sl/fx? lgoGqOfsf nflu
 laxfglkv xftn]; dft] dfg{; lsG5 . loglx?sf]; Wof w]} ePdf
 sl/fnfO{hfndf kfg[xft]hfnlsf]kφf]un]klg lgoGqOf ug{; lsG5 e08f/l, @)^#_ .
- @%=* cfksf]kmbaf6 sl/a @ lkm6 dfly cfn; sf]tmbdf lehf0f\rightarrowsf]sk8fn]
 a]] /fVgfn]Rofk Rofk nflUg] xbf e0af6 sl/fx? ?v r9\rightarrowsg; ls
 cfksf]kmdf nflUg]3gaf6 arfpg ; lsG5 -sfif ; rgf tyf ; rf/
 s(b) @)^@_.

- @=(s]sl sf6] v]sf]dxfgdf nul 9Ëfdf r6g]/ kfglsf]lgsfz hfg]
 7fp&f6 s]sl lgrfb{enfh aufpg]To; /L auf0{; skl5 af&l 5fqnf
 klg Toxl ufl8 lbg]. o; /L ubf{wfg v}df nfllg]ujf/f]tyf a]Pjf sl/f
 / 89jf /flu sd nfusf]kf0&f]-; fksf&f, @)^@_.
- @%=!) @%) ufd ndg uff; nf0{sf7 jf 9\ufdf lk:g]/ \$ ln6/ kfgldf ldnf0{
 To; sf]enfin la?jfdf &=& lbgsf]km/sdf k\u00f4fl\u00f4 ug.i. o; sf]k\u00f4fl\u00f4af6
 cfn' tyf uffne\u00f48fsf]89jfdf ^)=&) k|\u00f4tztn]sdl ePsf]kf0\u00f4f]eg]
 I; dldf nfllg]r':g]kt]f]efu\u00f4f]kf0\u00f4f]-; fksf\u00f4f, @)^@_.
- @%=!@ x/\$!^ nf0g ufjhe)Bf kI5 ! nf0g kxjhf]/\u00e4sf]; okqlsf] kith
 nufPdf ufjhe)Bfdf nfUg]uef/f]sl/f kxjhf]kithdf cfslift e0{hDdf
 xg]xbf xftn]I6k]/ dfg{; ls65 -s[if ; \u00e4rgf tyf ; ~rf/ s[b]@)^@_.
- @%=!\$ s]fsf]uj f/f\$f]dfp 3g sl/f s]fsf]yfddf cfslift xtg]u/\$fth]kfs]
 sf6\$f]s]fsf]yfdnf0{af6hf]r\$sfx? Kff/L sf6] hfEf]em{Ps dfly
 csf[vK6\text{to}f0{/fVgfn]dfp 3gx? r\$sfsf]lardf a:b5g\ ol 3gnf0{
 kqm] df/df; d:of s}l xb; Dd sd ug{; ls65 -stif; hgf tyf
 ; ~rf/ s(b) @)^@_.
- @%=!% wfg v}df kft a}pjf sl/fsf]lgoGqOf ug\{sf]nflu sfB\{\textit{bf}} 8f\{l lnO\{\textit{ba}\}5\{\textit{bf}}\ ; dft\{\textit{v}\}sf]\textit{b0} 5\{\textit{bdf} a:g] / wfgnfO\{5\{\textit{fP}/\ qmdzM\\ lakl/t \lbzflt/\ hfg]. o; f]\ugf\{\textit{n}\}wfgsf]\kftdf /x\{\textit{sf} \kft a}\{\textit{p}\}fsf\\ nfef\{? \kfgldf v; \{\textit{g}\} gi6 x\{\textit{5g}\}d/x\{\textit{sf}, @)\{\textit{g}\}.

- @%=!^= wfg v]df ujf/f]sl/fsf]3gIj sd ug\{f nflu wfg /f\[g]; dodf
 g; \{l Jof8df /x\{f a\gf\{?sf]6\kf]r\{}\] jf sf6\] /f\[g]. o; f]ugf\{n}
 wfgsf]kftdf /x\{f ujf/f]sl/fsf k\(\text{m}\)x? gi6 x\(\frac{5}{2}\)\d/x\{f, @))\{\}_.
- @%=!& tf][lsf] klgf !)) lsnflufd klt /flkglsf b/n] df6fdf ld; f0{ cbj f
 nufpgfn] cbj fsf] ufgf] slxg]/flun] sd Iftl k\u00e4ofp afnl; Alf0f
 lgb\u00e4gfno, @)^\u00e4_.
- e%=!* 0& a§]ktnln]bVM lbg]lfqdf ufjheQ8f; ਖ; ਖ}aGbfsfel / sfpnl /fqbf ufjheQ8fsf kftx?af6 lg:sg]uGwn]ubf{ol afnlx?df 0& a§] ktnln] kmh kfg{?rfpbg . kqo\$ aGbfsfal÷sfpnlsf]xf/sf]bfofF afbf xg]u/l #) lbg k/fgf]ufjheQ8fsf af&x?sf xf/x? xgkb\$. ctMufjheQ8f /fk\$f]Ps dlxgf kl5 dfq aGbfsfal jf sfpnl nufpg' kb\$ -t/sf/l ljsf; dxfzfvf, @)%!_ .
- @=!(; Hugdn M; Hugdnn] vf; ul/ la?j fdf le6fldgsf] sfd u5{. o; n]
 ; a}k\$f/sf /flu tyf sl/fx?nf0{slk xb; Dd lgoGqOf u/\$f]kf0Psf]
 5.; lug dn agfpg cfj Zos kg[; fdfulk?df l; :g' # lsnf]
 asf0gf]# lsnf] c; /f]# lsnf] lttlkftl # lsnf] agdf/f # lsnf] lv/f]
 # lsnf]; lhj g # lsnf] l; p&lsf]kft cfwf lsnf]/ uxlE ag:kltx?
 leHg]ul/ /fVg'kb\$. dfly pNn]vt ag:kltx?nf0{;; fgf 6qmf agf0{
 sf6g'kb\$ / sf6\$f 6qmfx?nf0{hbsf]af]fdf /flvG5. dflyaf6 af]f
 / ag:kltx?; a} leHg] ul/ uxlE /flvG5. ag:kltx? /fd/l
 lelh0{skl5 afEl /x\$f] uxlE 8dsf] tn 6blaf6 lgsflnG5.
 ag:kltx? slxP/!) lbgkl5 6blaf6 yfkfsf]?kdf en5{. Pslbgdf
 nueu cfwf ln6/ hlt en5{. o; /l tof/ ePsf]emfh slnnf]cj:yfsf]
 la?jfsf]nflu! efu; lugdndf * efu kfgl / l5lkkPsf]la?jfsf]
 nflu! efu; hugdndf \$ efu kfgl ld; f0{laxfgsf]; dodf k\pflu ug{
 kb\$. of]dn Ps xktf blv!) lbgsf]km/sdf cfj Zostf x]l k\pflu
 ug{; lsG5. -P; +P; +Pd=kl=, @)%(_.
- @%=@) hŊjs laiffblMo; n]enl; nsl/f / nflx sl/fsf]k\$fknf0{sd u/\$f]5 .
 v/fg]/flJsf]nflu klg of]k\epsilonflyPsf]5 . o; n]sl/fx?nf0{kft
 jf kmdf cfpg glb0{eufpg]sfd ub\overline{0}. /flJ nflu; skl5 ebf /flJ
 nflg' kj {g}k\overline{0} u/\overline{0}f o; sf]k\epsilonflysfl/tf a9l x65 . hŊjs laiffbl

agfpg cfj Zos kg]; fdfulx?df gldsf] kft ! lsnf]; 'tl\$f] kft cfwf lsnf] l6d/sf] kft / u\bar{g}f ! lsnf] cf?sf] d\bar{6}f ! lsnf] agdf/fsf] kft / d\bar{6}f @ lsnf]; oklqsf] d\bar{6}f cfwf lsnf] l; dnlsf] d\bar{6}f ! lsnf] l; :g\sf] d\bar{6}f ! lsnf] u\bar{g}mallsf]; a\rangle fu ! lsnf] ktgf @)) u\floor ufl\text{pf} e\bar{g}\left{sf}] d\bar{6}f ! lsnf] \text{sof} \rangle \left{sf} \rangle \left{g}f ! lsnf] c; \frac{f}{s}f] d\bar{6}f ! lsnf] \text{cw} \rangle \left{sf} \rangle \left{g}f ! lsnf] c; \frac{f}{s}f] d\bar{6}f ! lsnf] \text{cw} \rangle \left{sf} \rangle \left{g}f ! lsnf] c; \frac{f}{s}f] \text{ux} \rangle \left{g}f \rangle \left{g}f \rangle \left{g}f \rangle \left{g}f \rangle \left{g}f \rangle \rangle \left{g}f \rangle \rangle \left{g}f \rangle \ra

@%=@! kf|s[ts laiffblM o; n] vf; ul/ nfxl sl/fnf0{ lgoGq0f u5{. c?
 sl/fx?nf0{klg eufpg]sfd ub\$. af]fgsf]sld ePsf]df6fdf o; sf]
 k\phiflyn]af]fg tIj a9fpg; xofly u/\straction{1} 5. kf|s[ts laiffbl agfpg
 cfj Zos kg]; fdfulx?df lv/f]# lsnf] asf0gf]# lsnf] c; /f]# lsnf]
 l; dnl # lsnf] agdf/f # lsnf] ux\tall{\textit{E}} % ln6/, v/fgl # lsnf] kfgl %
 ln6/. ag:kltsf kft / d66fx?nf0{8ddf /flv65. km]l % lbgkl5 %
 ln6/ ux\tall{\textit{E}} / % ln6/ kfgl /flv65. v/fgl klg Totl alpf g}8ddf
 /flv65. ef8flpf0{5flk65 / hdlgdf ufl865. ag:kltx? slxgsf nflu
 sl/j !% lbg nfl5. o; /l sk] tof/ ePsf]kf|s[ts laiffbl nf0{5fg]
 tof/ ePsf]empnf0{la?jfsf]slnnf]cj:yfdf! efu laiffbldf % efu
 kfgl / l5kk\straction{1} cj:yfdf # efu kfgl ld; f0{k\phifly ul/65.; fdf6otof
 laiffbl cfj Zostf cg\f f & lbgsf] km/sdf k\phifly ul/65. o; /l
 agf0[\textit{Psf}]laiffbl \$ dlxgf; Dd e08f/ ul/ /fVg; ls65. P; \textit{P}; \textit{Pd-kl=}
 @)%(_.

e%=ee tlg uf|d uf|bfj/l knhsf]/; nf0{! ln6/ kfgldf /flv t/sf/l afnldf 5skf pkn|g]vk6]! xktf ; Dd lgoGq0f ug{; lsG5 -skif ; \(\text{rgf tyf} \) ; \(\text{rf/ skb} \) \(\end{e} \) \(^e__ \).

v= df6f]leq al; cfqnd0f ug]/fy, sl/f Joj:yfkgsf] nflu k\psi ul/g]:yflgo kljj lwx?

!= ljle@jg:kltx?sf]ld>0fsf]k\phi_0

- !=! hdlg leq al; af la?jfx?nf0{ xfgL gf}; fgL ug[ls/fx? /ftf] sldnf, vd] km s6jf, wld/f cflb ls/fx?sf] lgoGq0fsf] nflu ufpF 3/df kf0{j]lv/f[lttkftL, agdf/f, s]sLsf kft / 8fFx?nf0{dl; gf] u/L sf6L hdlgdf ld; f0kgfn] pQm ls/fx?af6 afnLx?nf0{ arfpg; lsG5.
 - -afnL; Alf0f lgbtgfno, @)^\$_.
- !=@ /ftf]sldnf lgoGqOf ug{kl/f]v'; fglsf]l9&l # j 6f lk\ddf] dl; gf]agfpg]
 / To; whfinfO{cfwf ln6/ kfgldf lehfP/ /fVg]. @—# ln6/ ; fj g kfgl
 pOm v'; fgl kfgldf ld; fpg]. o; /L ld; fO{skl5 @—# 306f TolQs}
 /fVg]. @)) ufd lttkftlsf]d06f lyr] Toxl+/fVg]/ @ 306f TolQs}
 /fVg]. To; /L cfPsf] enfindf # efu kfgl ld; fpg]. tof/L laiffbldf
 la?jf; f/\$f]!% lbg; Dd ^ efu kfgl ld; fO{k\phifu ul/G5 eg]To; kl5
 la?jfsf]cj:yf xl/sg ! efu laiffbldf %,\$ / # efu kfgl ld; f0{
 la?jfdf k\phifu ul/G5 -P; \P; \Pd=kl=, @)%(_.
- !# uGw] / IttkftLsf kftx? @%) Is=uf= klt /fkgLsf b/n] cfn' /fkg' cufl8 &afEdf Id; fpgfn]/ftf]sldnfsf]k\$fk sd ePsf]kfOf(sf]5 e08f/L, @)^#_ .
- !=\$ lultdnMo; n]; a}lsl; dsf sl/fx?nf0{eufpg]sfd ub\(\) . o; n]\vf;
 ul/ \vdi\(\) f0{sd u/\(\) f1 kf0\(\) sf] 5 . o; n]\df6filf lr:ofg sfod ug\(\) fy}\dn ylklb\(\) 5 . s; \(\) j]\ulldraw jlultdn ag:kltx? g/fvl dq, lkgf, \v/fgl,
 uf]/ /fv]\ulldraw jlultdn agfpgsf] nflu cfaZos ; fdflu\(\)?df sf\[\)ff]
 kftsf]\kft cfwf lsnfilfd, gldsf]\kft ! lsnfilfd'\sf]\ulldraw jf / kft !=\(\)

- !=% l; :g\$f]kft / d66f ! lsnf]nf0{dl; gf]6qmf agfpg]/ @ ln6/ kfgldf
 8j f0{aGb efBfdf 5fk] sl/j !% lbg; Dd /fVgkb\$. To; kl5 l; :g'
 /fd/L slx0{laiffbL tof/ xG5 . o; laiffbLn]/ftf sldnf / vdhf0{skL
 xb; Dd Joj:yfkg u/\$f] kf0fsf] 5 . laiffbL la?jf ; f/\$f] *-!! lbg
 kl5 dfq k\pfi ug{kb\$. Ps efu laiffbldf # efu kfgL ld; f0{la?jfdf
 k\pfi ug{kb\$. of] \$-% lbgsf]km/sdf cfj Zostf cg'; f/ k\pfi ug{
 ; lsG5 -P; =P; =Pd=kl=, @)%(_ .
- !=^ df6fddl a; l bllv lbg]sl/fx?sf]Joj:yfkgssf nflu xdfn enfd-! tof/u/] k\pfd ug{; ls65 . o; sf nflu lgDg ; fdfulx? cfj Zos kb\$

```
; okal kmhsf kft tyf d66fx?
                                                 %)) ufd
    lkgf -tf//L cyif lad
                                                   ! sŧĥl=
                                                 %)) ufd
#=
    v/fqL
= /ftf[k/f]v'; f(al -km) if whf]
                                                   %) ufd
%=
    Kofh
                                                 @)) ufd
^= n; b
                                                 @)) ufd
&= dl6&tih
                                                 @) Id ≠ n=
*= kfqL
                                                   & In6/
```

 $dflysf j:tx?nf0{ 5\Sf5\S} dl; gf] u/L lkWg] / kfgldf ld; fpg]. cGlodf 5g[; dodf dl\St]n ld; f0{5g[{5}. of]jg:ktl lj iffblnf0{xfjf ghfg] u/L /fVg ; lsPdf # lbg ; Dd /fVL 5g{; lsG5 gq eg] @$ 306f leqdf 5l/; Sgk5{-xdfn, @)^$_. -pQmlj iffbl $ hg @))$ b]\v @% ; [6]j / @))$; Dd ; #fInt clwsf :t/lo cf0{k+Pd= tflnddf kl/lf0f ul/Psf]} <math display="block"> dflysf = dflys$

@ lkgfsf]k\pf\p

- @=! cfndf nflg]/ftf sldnfsf]/f\$yfdsf nflu cfn' /flg]ainfdf df6fdf
 lrp/lsf]lkgf @)) b]|v @%) ls=uf| k||t x\$6/ ld; fpgfn]cfqmd0f sd
 x65 -s[if; rgf tyf; ~rf/ s[b,|@)^@_.
- @=@ dl; gf] x\(\gamma\) u/L lk; \(\frac{1}{3}\) | \(\frac{1}\) | \(\frac{1}{3}\) | \(\frac{1}{3}\) | \(\frac{1}{3}\) | \(\frac{1}{3}\) |
- @# tf][Lsf] klgf !)) Is=uf= klt /flkglsf b/n] df6fdf ld; f0{ cbj f
 nufpgfn]cbj fsf]ufgf]slxg]/flln]sd Iftl klfofpb5 -e08f/l, @)^#_.
- es cl8/sf]klgfnf0{hdlgdf k ϕ fJı ul/Pdf afnlgfnlnf0{bVM lbg]wld/fsf] k\$ff\nf0{36fpg ; ls65 -sff ; \rangle rgf tyf ; \rangle rf/ sfb\| @)^@_ .

$#= 5fkf f k \phi f \psi$

- #=@ Ittfkftlsf]kft / 8fFsf]5fkf]/fVgfn]df6f ϕ f a:g]sl/fx?sf]cfqmd0f sd xG5 . Ittkftldf zqmf0f ϕ f; s, 9; lgf; s / sl6gf; s u0f xG5 e08f/L, @)^# .

\$= sjslsfjkftsfjkøfij

\$=! /ftf] sldnf lgoGq0fsf] nflu cfn' /fNpf kTo\$ cfn' bfgf dgl s}\$l la?jfsf]Ps ; fgf]6qnf kft /fVgfn]/ftf]sldnfsf]cfqmd0f sd ePsf] kf0Psf]5 -afnl ; /df0f lgbZgfno, @)^\$_.

%= 16d/sf]k\phi

%=! Ps Is=uf= af\$]I6d/sf]whf]/ cfwf Is=uf= I; IN6d/sf]whfjhf0{IdnfP/
klt ^ aukd6/ hlufdf pkrf/ u/L pQm hlufnf0{\$ lbg ; Dd knfli6sn]
9fsk15 afnL nufPdf /ftf]sldnf af6 afnL hfjlfpg ; Is65 -e08f/L,
@)^#_.

^= uf0@}\sf]lk; fasf]k\pfi

&= /ftf]df6f\$f]kφfy

&=! Ps ls=uf= /ftf]df6fjhf0{!@ -!% ln6/ kfgldf 3fjhl kmnkmhsf]sf08 / xffifdf kfjl lbPdf wld/fsf]/f\$yfd xG5 / o; /L /ftf]df6fjh]kfjg]sf0{ aiff{cufl8 Ps k6s / lxpbsf]; dodf Ps k6s u/L aif\$f]@ k6s ug{ cfj Zos kb\$ -e08f/L, @)^#_.

*= sf7sf]whf\$f]k\phi()

*=! $sf7sf]whf] -; Nnf] afx$_ nf0{; Vv/ jf vbfdf dfh] ; fent/ affsf] j | /kl/ /fVgfn] ; Vv/sf] u6wn] cfslift e0{ vd] sl/f aflx/ cfp$. ; Vv/ vfg nflbf whf] zl//df 6fF, 65 / kg df6f] leq k:g ; Sbg . To; kl5 ltglx?nf0{r/fx?n]vf65gV gi6 kfb$g\e08f/l, @)^#_ .$

(= ds\f]k7f\f]k\phi

(=! km) sf6\(\delta\)]sl/f \lgoGq0f\(\sigma\)f\[\lgoGq0f\(\sigma\)f\[\lgoGq\)f\[\lgoGq\] \rangle f\[\lg\]
!)=v;fglsf]kþfy

- !)=! /ftf]sldnf lgoGq0f ug{kl/f]v'; fglsf]l9&l # j 6f lkw] dl; gf]agfpg] / To; whfjhf0{cfwf ln6/ kfgldf lehfP/ /fVg]. @—# ln6/ ; fj g kfgl pQm v'; fgl kfgldf ld; fpg]. o; /L ld; f0{skl5 @—# 306f TolQs} /fVg]. @)) ufd lttkftlsf]d06f lyr] Toxl+xflnG5 / @ 306f TolQs} /fVg]. To; /L cfPsf] enfihdf # efu kfgl ld; f0{5 . tof/L laiffbldf la?jf; f/\$f]!% lbg; Dd ^ efu kfgl ld; f0{k\phif\pu ul/G5 eg]To; kl5 la?jfsf]cj:yf xl/sg ! efu laiffbldf %,\$ / # efu kfgl ld; f0{ la?j fdf k\phif\pu ul/G5 -P; \P; \Pd=kl=, @)%(_ .
- !) = v; fgLsf] whf]!)) ufd In0{! In6/ kfgLdf @ lbg; Dd lehfpg]/
 o; nf0{5fg] % lbg; Dd nuftf/ k\pfi] ug{kb\starting . o; laiffbLn] km\psf6\psi] sl/f / /ftf] sldnfnf0{lgo\sq0f u/\starting f] kf0\psf] 5 -P; =P; =Pd=kl=,
 @)%(_ .

!!= asf0gf\$f]k\pfy

!!=! asf0gf\$f] Ps |snf] kftnf0{/fdf] u | lyr] % |ln6/ kfgldf |ld; fpg' | kb\$. o; nf0{ 5fg] | la?j fdf | k\phif\pu | ug{ kb\$. of] agfpg] |la|Qs} |la?j fdf | k\phif\pu | ug{kb\$. o; |laiffbln]df6f\phif /xg]/f\pusf |hlj f0fx?nf0{ |lgoGq0f | ug{b]\phipsf]5 -P; \phi; \phid\kl= @)%(_ .

u= e08f/0fdf nflg]/fij sl/f Joj:yfkgsf nflu køfij ul/g]:yflgo kljj lwx?

!= ljle@jg:kltx?sf]alpmsf]tm]sf]k\phi[]

- !=! bfnafnlx? vf; u/l df;, af\lambdal, /x/, rgfnf0\{; \{o," abfd, ; b\lambdal\text{U} d\lambda\text{U} \\
 s\lambda\rangle

- !# $[lmh] f en [tn sf] th !-@ ld=n= k|t lsnf] cgfhsf b/n] pkrf/ u/] yGSofPsf] cgfhdf 3g / ktnlx?n] Iflt ug{; Sbgg\-Gof] e)%&_ .$
- !=\$; b@lvlsf] tihn] pkrf/ ul/Psf] ; lGrt /x/sf] alpdf 3g -SofNnf] fa\\$; rf0@jl; ; _ gnfu\\$f]kf0Psf]5 -Gof\kfg]@)%&_ .
- !=% cl8/sf] alpaf6 kf0(g] tinn] pkrf/ u/] ; lGrt cgfhnf0{ laleGg sl/fx?af6 arfpg ; lsG5 -Gofkfg]@)%&_ .
- !=& Itnsf]tihn]pkrf/ u/\$f]d\usf]alpdf bnxgsf]vk6ih]kmh kfg{; Sbig / of]tihsf]; Dks&ff cfPsf kmhx?af6 nfe]lg:sg; Sbigg\ Itnsf]tih Id; fP/ sg}efBfdf /fv\sf; lGrt cgfhnf0{s\underline{k}l dlxgf; Dd cgfhdf nflg]3g -; f06flkmn; cf]f0\underline{h}l_n]vfg; Sbig -Gofl\underline{kfg]@)%&_.

@ afensflkøfu

- @=! af@nf]cfwf dfgf, lttkftl! dfgf / l6d/! dfgf nf0{/fdf] w ; sfpg]/dl; gf] whf] xg] ul/ lk/wg]. of] ld>0fnf0{ e08f/0f ul/g] cgfhdf ld; fpg]. of]Ps k6s kφfiμ u/]kl5 hij7 bl/v dl+/; Ddnf0{sfd ub{\$ P; +P; +Pd=kl=, @)%(_ .
- af $\mbox{e=e}$ af $\mbox{enf}\mbox{sf}\mbox{ufgf}\mbox{sf}\mbox{whf}\mbox{e})-e%$ ufd k|t Isnf \mbox{ufd} cgfhdf /fVbf 3gaf6 arfpg ; IsG5 -e08f/L, e)^#_ .
- @# afenfn]; ||Grt cgfhdf nflg]sl/fx?sf]|goGqOf ub\$. esf/l jf cGoq
 yGsfPsf]|wfgsf]alrdf afenfsf]|a/fssf]|whf]|Pp6f kftnf]|sk8fdf afn]|
 /flv||bgfn]|wfgsf]|ktnlsf]|goGqOfsf]; fy}cGo cgfhsf]|ktnlsf]|klg
 ||goGqOf ub\$-Gofsf]|@)%&_.

- @=\$ af@nf\$f]la/f}ksf]tjh jf whfjh]pkrf/ ul/Psf cgfh -wfg, bnxg cflb_
 df 3g -; f0\{f]km; cf]f0\{hL_ / vk6] -6\{\phi_uf}\df\{u\phi_J\od_ sf] \lgoGq0f
 x(5 -Gof)\{fg]@)%&_.
- @=% af@mf\$f] h/fsf] whf] %) uf|d k||tlsnfi|nf|d ds@lf ld; fP/ /fVbf ds@lf
 nfllg]3g -; f0&ff|kmn; lhofd|h_ sf]@@% lbg; Dd -pkrf/ kl5_ lgoGq0f
 ePsf]/ of]pkrf/n]ds\\$f]pd@] lfdtfdf vf; c;/ gku\\$f]kf0Psf]5
 -Goffkfq]@)%&_.

#= gldsf]k\psi_j

- #=! gldsf]alpsf]whf]! efu !)) efu cgfhdf ld; fP/ /fVbf wfgsf]3g ktnlaf6 clgnf0{^ dlxgf ; Dd hf]Jfpg ; lsl5 . ; fy}bfn afnldf klg gldsf]alpsf]whf]! —@ k|tztsf b/n]/fVbf bfn afnl x?nf0{klg ; //IIft /fVg ; lsl5 -s[if ; tgf tyf ; ~rf/ s[b,|@)^@_ .
- ## gldsf]lbpn jf alpsf]whfh]pkrf/ u/\stilv08df; lGrt cgfhnf0\{
 e08f/df nfllg]laleGg sl/fx?af6 hflufpg; lsG5. ds\}wfg, uxFhf\}
 hghf]cflb cgfhdf gldsf]lbpnsf]whf]! -@ kltzt -tfhsf lx; fan]
 ld; fP/ e08f/ ul/Psf]v08df ltgnf0\{wfgsf]3g, vkf vk6]/ /f0hflyf\{
 vk6]af6 @\&)-#*) lbg; Dd; //IIft /fVg; lsG5. bnxgsf alpx?
 h:t\rgf, dlu, af\text{Bl cflbnf0\{pQm adflhd pkrf/ ubf\{eg]bnxgsf]}
 vk6]-SofNnf]f\delta\struct\; Dofshf6; _ nf0\{@\struct\)-#^% lbg; Dd lgoGq0f ug\{
 ; lsG5-Gofl\rfg]@)%\&_.

% ∨/fgLsf]kφfy

- %=@ ds\sf] e08f/0f ubf{% Isnf\ufd v/fgL k|\t ISj 06n cgfhdf Id; f0{
 /fVgfn]cgfhnf0{(dlxgf ; Dd 3gaf6 ; //IIft /fVg ; Is65 -s\ufletff ; \text{"fgf tyf ; ~rf/ s\ufletb|\@\)^@_.
- %# e08f/0fdf e6Mf; sf]alpnf0{wfgsf]e; sf]v/fgl ! k|tzt -! ls=uf= v/fgl !)) ls=uf= e6Mf; df_ dfM_ /fVbf alpnf0{sl/faf6 ; //Ift /fVg ; ls65 -e08f/l, @)^#_ .
- %=\$ eflhk/ / wgs&fsf slfsx?n] e08f/0fdf uxlflf nfllg] sl/fx?af6 hflyfpg sf7sf] v/fgl k\psif\u/\structure lkf0\psif\lambde{f}]. sl/fx?af6 hflyfpg af\u/\structure lkf0\psif\lambde{f}]-e08f/l, @)^#_ .

^= 16d/sf]k\psi_

- ^=! l6Da/sf] # ufd whf] k|t lsnflufd cgfhdf /fVbf e08f/0fdf nflug] sl/fx?af6 arfpg ; ls65 t/ To:tf]cgfh ; &/sf]nflu laiffn' x65 e08f/L, @)^# .
- ^=@ l; lN6d/sf]; \$\frac{1}{2} kmsf] whf] -@) ufd k||tlsnf]ufd_ ds\frac{1}{2}f ld; fP//fVbf o; pkrf/n]ds\frac{1}{2}f]3g -; f06f]km; lhofd]\frac{1}{2}h_ df; fwf/0f c; /dfq k\frac{1}{2}ofPsf]kf0Psf]5 -Gof]\frac{1}{2}f]@)%&_ .

&= asf0gfsf]k\phify

- &=! /fd/[L kfs]]; \$\frac{1}{s}f asf0g\$f kmx?nf0{uf|068/n] lk\frac{1}{m}} tof/ u/\frac{1}{s}f] dl; gf]whf]sl/f gnfu\frac{1}{s}f] ux\frac{1}{d}f !=@ k||tzt -tf|\text{n}sf lx; fan] ld; fP/ /fVbf cgfhdf nfllg] k||tnl af6 !#% lbg; Dd ; //IIft /fVg ; ls\frac{1}{s}f \text{Gof}\frac{1}{s}fg]@)\frac{1}{m}.
- &=@ asf0gsf] afdaf6 xl/of kft l6k] Itgnf0{ 5fdfdf ; sfpg] -3fddf ; sfpbf Itgdf /xsf sl6gfzs kbfyx? gi6 x65g\ clg Itgnf0{uf068/ jf c6o; fwgn]lkw] whf]agfpg]. ca of]whfinf0{sl/f gnfusf] uxeff \$-* kltzt -tfnsf lx; fan] ld; fP/ /fVbf To; nf0{ cgfhdf nfllg]ktnlaf6 !#% lbg; Dd ; //Ift /fVg ; lsPsf]kf0l?sf]5 Goflxfg]@)%&_ .

- *= ljle@jg:kltx?sf]; \$\f\kftsf\k\psi
- *=! lk/f] v; fgl, dyl, d]fsf]kft k\psi_u/] e08f/0fdf nflg]sl/fx?af6 arfpg; ls65 -e08f/L, @)^#_.
- *=@ d; nf, gld, lttlftl, asf0gf]ag:kltx?sf]kftnf0{5ff6fdf; sfP/ clg To; nf0{ lkw/ agf0lpsf] whflhf0{ cfn' e08f/0fdf k\psifl ubf{ ol ag:kltx?sf]u\text{u}m]cfndf nfllg]ktnl nufot c\text{c}o sl/fx?sf]lflt sd x\text{c}5 -e08f/l, @)^#_.
- *# I; tfkm:/fdkmsf]; \$\f\ kftsf] whf] Id; fP/ /flvPsf hg\f\f] /
 af\lambda\lnf0{\psi} dlxgf; \text{Dd af\lambda\lsf] 3\text{gaf6}; \forall \lift /flvg; \ls65.o; \rangle \forall \left
 e08f/0fdf wld/faf6 hf\rangle\fpg e08f/0fdf k\rangle\f\rangle\frac{1}{2} ul/g] ef\text{Bfx?nf0}{\lnp/\lsf]k\lgfn]\lnk\lbg]\rng; d\rangle\frac{1}{2} kf0\rangle\frac{1}{2} e08f/\lambda\frac{1}{2}.
- *=\$ c; \(f\)f\[f\]kftsf\]whf\]-! k\[tzt_ \ld; fP/ \(f\v\)\[f\]wfgdf cgfhsf\]k\[tnl sf\] \(\fdf\] \[\lgoGq0f ePsf\] \(\fdf\] \(\fdrag{\fightar} \) \(\fdrag{\fightar} \) \(\fdrag{\fightar} \) \(\fdrag{\fightar} \) \(\fdf\] \(\fdrag{\fightar} \) \(\frac{\fightar} \) \(\frac{\figh
- *=% ufFifsf; \$\\$f kftx? cgfhn] el/Psf af]fx?sf alralrdf /fVbf wfgsf]3gsf nfe]hf0{vf; c; / gk\\$ofP klg jo:s 3gx?nf0{eg]c; / k\\$ofPsf]kf0Psf]5 -Gof]kfg]@)%&_ .
- *=^ osfinK6; -d; nf_ sf kftn]bnxgdf nfllg]laleGg lsI; dsf 3gx?nf0{ klg lgoGq0f ug{; Sg]kf0Psf]5. bfnx? -uBf_ nf0{e08f/0f ubf{o; ag:kltsf!} -!@j6f kftx? k|tlsnflufd cgfhsf b/n]ld; fP/ /fVg' h?/L 5. To:t}e08f/0f ul/Psf] cfnhf0{ klg osfinK6; sf kftx? ld; fP/ /fVgfn]cfndf nfllg]k'tnlaf6 arfpg; lsG5-Gofkfg]@)%&_.
- *=& afa/lsf]; s\sf]kftsf]whf]ld; fP/ /fv\sf]ux\bar{e}f]alp -dfqfM)=%, ! / @ efu kftsf]/!)) efu alp_ nf0{cgfhsf]3g af6; //llft /fVg; ls\sf-\cof\kfg]@)%&_.
- *=* afa/lsf] ; \$\fif{f} kftsf] whf] ld; fP/ /fv\fif{f} rgfsf] alp -dfqf M)=\%,)=\% / !=) efu kftsf]whf]/!)) efu alp_ nf0{af\filsf} 3g -SofNnf] f\fif{g}\fi; rf0\fif{g}\filsf]; ; _ af6 ; \(\filsf{lft} \) /fVg ; Sg] kf0\filsf{sf} 5 Gof\fif{fg}\file\) \(\filse\fil

(= uf0\f]ux\fsf]k\psi\f

(=! dsfalpnf0{/fd/L; \$f0{e08f/0f ug[a]nfdf uxEn]xNsf Ir; f]x\g] u/L dn/k\g \$-\% 306f 3fddf; \$fP/ e08f/0f ubf{3\g k\tnlsf]; d:of sd x\g]s/f uNdL I; f\g]L ufp\bar{E}f s[fsx?sf]cgej 5 -e08f/L, @)^#_.

!)= rģsf]kþfj

!)=! rgsf]whf]5/] jf 3fh] ds\$f]3flJfnf0{rfk] To; kl5; \$fP/ yf日fdf /fVbf 3gaf6 hflJfpg; ls65-e08f/L, @)^#_.

!!= afnjfsf]køfu

!!=! Ps Is=uf=; Vvf a/a/fpIf afnjf bz Isnfufd sIf fpsf]alpdf Id; f0{ e08f/0f ubf{3g ktnl sd nflg]u/\$f]kf0If sf]5 -e08f/L, @)^#_ .

!@ dl/rsf]køfy

!@=! d/lrsf]whf]-)=% k|tzt tfinsf]lx; fan] ld; fP/ /fv\sf]ux\textbf[0\{3\textbf] ; f0\textbf[kmn; cf]f0\textbf[l, sf jo:saf6 k0f\textbf[kn]; //lft /fv\sf]kf0\textbf[sf] 5 .
To:t\d/lrsf]kmsf] whfin]pkrf/ u/\sf]ds\sf]af\textbf[df ds\sf]slnnf]
3f\textbf[df nflg] sl/f] -x\textbf[nsf\textbf]kf\textbf[lhof_ sf] kf\textbf[lhof_ sf] kf\textbf[lhof_ sf]
@)%\textbf_.

lgisif{

gkfn hljs lalawtfsf]bli6sflfaf6 w]}g}wlg b½ xf]. oxfFkf0{g}]w]} lsl; dsf ag:klt tyf h8lj δ lx?df hljgfzs u0fx? kf0{5. o:tf ag:kltx?sf]k ϕ flj ul/ s[fsx?n]k/fkj {sfn bljv afnlgfnldf nfllg]zqhljx? -/flj, sl/f, enf/kft cflb_ Joj:yfkg ub{cf0{x\$f 5g\ o:tf ag:kltx?sf]} afnl; Alf0fdf; bkoflj ug{; s]Io; }v] u0{x\$f j g:kltx?sf]pkoflj xg u0{ hljs lalawtf; Alf0fsf] lfqdf; d‡ ofljbfg kllg] bljv65.; fy} a9\flif{; folgs kbfy}{?sf] k ϕ fljaf6 xfn kof{/0fdf e}x\$f] gs/flds k ϕ fl nf0{ lolgs/0f ul/ lbuf]s[if ljsf; df; xoflj k ϕ flofpg; ls65.

gkfndf eflyfins ljljwtfsf]sf/0fn] ubf{w]}lsl;dsf ag:klt / h8lablx?kf0{5 ol d\u00edb]sltko ag:klt / h8lablx?df hljgfzs u0f kf0Psf]5 hljgfzs u0f ePsf jg:kltx?gkfnsf j leGg efudf 5l/Psfn]

s[[sx?n]k/Dk/fut ?kdf k\pfi] ub{cf0{x}f]afnl; AlfOfsf: yflgo k|j lwx? klg:yfg laif½ / afnl laif½ cg; f/ km/s km/s xg':jefljs xg hf65. ljiffblh6o ag:kltx?sf]klxrfg,; AlfOf Pj+; Djwg ug{:yflgo s[[sx?nf0{tflnd, e\phi0f u/f0{; Ifd agfpg'kg]/:yflgo ljiffblh6o ag:kltx?af6 3/]n' ljiffblsf]Jofj; flosls/Ofdf hf\$ lbb}; /sf/l glltx? To; ½km{nllft xgkg] b]\/65.

; Gbe{; fdfulk? M

- != gpkfg] kml0f6b|k|fb@)%&, hl8ablåf/f sl/f lgo6q0f, ; femf k\$fzg, kNrf\$, nlntk%.
- @= e08f/L, l8nf/fd @)^#, kf\ufl/s s[if k':ts, >ldtl hfgsl e08f/L, zs/gu/ uf=j =; =, ?k6b\u00e4l .
- #= P; P; Pd=kl=@)%(, jfg:klts ljiffblsf]kφfyåf/f t/sf/l tyf kmnkth afnlsf]/fy sl/f Joj:yfkg, ls;fgsf cgejx?sf]; Efnf] lbuf]sfif ; :yf, gkfn.
- \$= ls; fg qglfl; s, df3-rgl@)%@, ; fdbflos sNof0f tyf lj sf; ; ;yf -CWDs_, afnfh', sf7df08f}gkfn .
- %= ls; fg qdfl; s, jtfv-cfiff9 @)%#, ; fdbflos sNof0f tyf ljsf; ; #yf-cwds_, afnfh, sf7df08f},glfn .
- ^= s[if k||j|w k':ts @)^@, s[if ; |rgf tyf ; ~rf/ s[jb,| xl/x/ejg, n|ntk/.
- &= d/x§f, P; =k=@))%, wfg afnldf zqsl/fx? / ltgsf]Joj:yfkg, Pslstzqhlj Joj:yfkg k|zlfs; =yf -titan_, g|tfn .
- *= afnl ; Alf0f ; Gb≱, dl+, /-kııfuģ @)^\$, afnl ; Alf0f lgb≱gfno, xl/x/ejg, nlntk/.
- (= gkfndf t/sf/l afnlsf dVo xflgsf/s sl/fx?, @)%!, PkmP=cf} tfhf t/sf/l tyf t/sf/l alp pTkfbg cfofhgf, t/sf/l lj sf; dxfzfvf, vdn6f/, nIntk//.
- !)=;fksfðf, ufljiGbk|fb @)^@, /f;folgs ljiffblsf] ljsNkdf hljjs jfg:klts ljiffblsf] kþfjl. 0G6Luð\$ k]6 Dofg]hd]6 -cf0-{kl=Pd= P08 Knf06 kfjð\$;g:6f6]hl 8ènKd]6 0g g]kfn, Knf06 kfjð\$;g;f]f06Lg]kfn,k]hg=@^(.
- !!= kf\$h, dw; bg @)^\$, afnL; AlfOfdf:yflgo klj lw, ck\$flzt n}v.
- !@= xdfn, lj gf() @)^\$, afnL ; Alf0fdf :yfgLo k||j lw, ck\$flzt n)/ .

प्रकाशक

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