\1cw 3.15

\U1STANDARD

\U2BOLD\_\_L

\U3NORM\_\_L

\U5NORM\_SL

\U9MATH

\U0DRAWSYM

\U!SMALL\_R

\U"BOLD\_\_R

\U#NORM\_\_R

\U$ITAL\_\_R

\U)MATH\_I

\U\*LINEDRAW

\pPL 128

\pPF 1

\pTF 1

\pRM 59

\pLM 8

\pTM 0

\pBM 0

\pPI 0

\pJU 1

\pHS 2

\pDS 1

\pEN 0

\pSP 1

\pTA 5 10 15 20 25 30 35 40 45 50 55 60 65 71 76

\pPS 1

\pTS 1

\HD

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\#Cbcntvs FGX utnthjlbyf ghbtvybrf \ ghbvtyz.n \ xfot

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dctuj lkz evtymitybz jnrkjytybq \ ghjvt;enjxyjq \ xfcnjns

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jn \ yjvbyfkmyjuj \ pyfxtybz\3, \ \#dspdfyys[ \ \ ytcnf,bkmyjcnm.

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xfcnjn \ gthtlfnxbrf \ b \ \ utnthjlbyf\3. \ \ \#Ghbvtytybt \ \ FGX

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wtktcjj,hfpyj ghb \ ,jkmib[ \ ytcnf,bkmyjcnz[ \ xfcnjn\3. \ \#D

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'njv ckexft \ gjkjcf \ ghjgecrfybz \ ghbtvybrf \ pyfxbntkmyj

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ibht jgnbvfkmyjq\3. \ \#FGX \ ghbvtyz.n \ nfr;t \ d \ abkmnhf[\3,

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\#cktlzob[ pf cbuyfkfvb c \ vtlktyyj \ bpvtyz.otqcz \ afpjq

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bkb xfcnjnjq\3, \#d ltvjlekznjhf[ cbuyfkjd c XV b AV\1, \,

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\#b n\3.\#l\3.\,

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\#Ghbywbg ltqcndbz \ FGX \ cjcnjbn \ d \ fdnjvfnbxtcrjv

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bpvthtybb jnrkjytybz ghjvt;enjxyjq xfcnjns ghbtvybrf jn

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yjvbyfkmyjuj \ pyfxtybz \ \ bkb \ \ xfcnjns \ \ gjlcnhfbdftvjuj

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utnthjlbyf jn ytrjnjhjuj j,hfpwjdjuj pyfxtybz \ b \ gjl-\A

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cnhjqrt utnthjlbyf nfrbv j,hfpjv\3, \#xnj,s jnrkjytybt \ yt

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ghtdsifkj ytrjnjhjuj pyfxtybz\3.\,

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\#Gj \ ghbywbge \ ltqcndbz \ \ bpvthbntkmyjuj \ \ 'ktvtynf

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hfpkbxf.n ldf dblf FGX\3: \#cbcntvs afpjdjq fdnjgjlcnhjqrb

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xfcnjns (AFGX) b xfcnjnyjq (XFGX)\3. \#D cbcntvf[ XFGX d

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rfxtcndt bpvthbntkmyjuj 'ktvtynf bcgjkmpetncz \ xfcnjnysq

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lbcrhbvbyfnjh\3, \#f d AFGX - afpjdsq\3. \#Cbcntvs \ AFGX\3, \ \#d

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jnkbxbt jn XFGX\3, \#ghb gjcnjzyyjv \ dytiytv \ djpltqcndbb\3,

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\#yt dyjczn jib,re htuekbhjdfybz gj xfcnjnt\3. \#Jlyfrj ghb

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'njv \ djpybrftn \ cnfnbxtcrfz \ jib,rf \ htuekbhjdfybz \ gj

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afpt\3.\,

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\#D pfdbcbvjcnb jn [fhfrnthf hf,jns \ bpvthbntkmyjuj

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'ktvtynf cbcntvs FGX ltkzn yf cbcntvs ytghthsdyjuj \ b

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bvgekmcyjuj \ \ ltqcndbz\3, \ \ \#jceotcndkz.obt \ \ cjjndtncndtyyj

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ytghthsdyjt b lbcrhtnyjt ckt;tybt pf xfcnjnjq\3.\,

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\#D rfxtcndt 'ktrnhjyys[ eghfdkz.ob[ 'ktvtynjd \ d

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cbcntvf[ \ \ FGX \ \ bcgjkmpe.n \ \ \ nhfypbcnjhs\3, \ \ \ \#dfhbrfgs\3,

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\#ytkbytqyst rjyltycfnjhs \ b \ bylernbdyjcnb\3. \ \#Rhjvt \ njuj

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byjulf \ \ bcgjkmpe.ncz \ \ 'ktrnhjvt[fybxtcrbt \ \ eghfdkz.obt

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'ktvtyns\3, \#rjnjhst \ bpvtyz.n \ xfcnjne \ utnthjlbyf \ gentv

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bpvtytybz gfhfvtnhjd tuj rjynehf \ c \ gjvjom. \ 'ktrnhj-\A

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vt[fybxtcrjuj ghbdjlf\3.\,

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\#Hfccvjnhbv \ \ ,jktt \ \ gjlhj,yj \ \ cbcntvs \ \ \ afpjdjq

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fdnjgjlcnhjqrb xfcnjns \,

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\^\ \ \ \ \ \ \ \ \ \ \ \12. \#cbcntvs afpjdjq fdnjgjlcnhjqrb\ \ \ \ \ \ \ \ \ \ \ \^

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\12.1. \#Cnhernehyfz c[tvf b ghbywbg ltqcndbz AFGX\3.\,

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\#Cbcntvs AFGX vjuen dsgjkyznm \ hfpkbxyst \ aeyrwbb\3.

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\#Tckb gfhfvtnhs \ j,hfpwjdjuj \ cbuyfkf \ ytgjcnjzyys\3, \ \#bkb

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rjulf yf d[jl \ cbcntvs \ dvtcnt \ c \ gjktpysv \ cbuyfkjv

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gjgflftn \ fllbnbdyfz \ gjvt[f\3, \ \#cbcntvf \ AFGX \ dsgjkyztn

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hjkm eprjgjkjcyjuj abkmnhf\3. \#Cbcntve AFGX \ vj;yj \ nfr;t

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bcgjkmpjdfnm \ lkz \ gjcnhjtybz \ ytkbytqyjuj \ abkmnhf \ \ b

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ltvjlekznjhf cbuyfkjd c XV b AV\3. \#Jcyjdyjt \ yfpyfxtybt

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AFGX \ d \ hflbjghbtvys[ \ \ ecnhjqcndf[ \ \ - \ \ cnf,bkbpfwbz

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xfcnjns vtcnyjuj utnthjlbyf \ lkz \ jceotcndktybz \ njxyjq

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yfcnhjqrb ghbtvybrf\3.\,

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\#Cbcntvs \ \ AFGX \ \ vj;yj \ \ hfpltkbnm \ \ yf \ \ cbcntvs

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f,cjk.nyjq \ \ b \ \ ghjvt;enjxyjq \ \ xfcnjn\3. \ \ \#D \ \ \ cbcntvt

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f,cjk.nyjq \ xfcnjns \ (hbc\3.\#1\3,\#f) \ xfcnjnf \ utnthjlbyf \ \ d

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cnfnbxtcrjv ht;bvt \ njxyj \ hfdyf \ xfcnjnt \ cbuyfkf\3. \ \#D

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cbcntvt \ \ ghjvt;enjxyjq \ \ xfcnjns \ \ (hbc\3.\#1\3,\#,) \ \ \ xfcnjnf

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utnthjlbyf jnkbxftncz jn xfcnjns cbuyfkf \ yf \ dtkbxbye

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ghjvt;enjxyjq xfcnjns\3. \#Ghb 'njv jgjhyfz xfcnjnf \ hfdyf

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yjvbyfkmyjve pyfxtyb. ghjvt;enjxyjq xfcnjns\3.\,

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\- \3U\!al \\*p p

\- u----o u----o u----o u----o u----o pu----o u----o

\- \3U\!c\\*p p p p p p \3U\!c\\*p p p p pp p p p

\- [-o \$AL \\*u--o \$EC \\*u--o \$A \\*p [-o \$CV \\*u--o\$EGX \\*u--o \$AL \\*u--o \$EC \\*p

\- p p

\- m-i--. [----. m--i-. m-i--. m----. [----. m--i-.

\- p p p p

\- p\3U\!u \3U\!h\\*p p\3U\!u \3U\!al\\*p

\- p p p p

\- u----o u----o p u----o u----o\3U\!h\\*u----o p

\- \3U\!u\\*p p p p p p p p p p p p

\- [-o \$U \\*u--o \$E" \\*u-----] p \$U \\*u--o \$E" \\*u--o \$A \\*u-----]

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\- m----. m----. m----. m----. m----.

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ \#hbc&1& Cnhernehyst c[tvs AFGX&\ \ \ \ \ \ \ \ \ \ \ \ \^\,

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Hfccvjnhbv \ ghbywbg \ ltqcndbz \ cbcntvs \ \ FGX^ \ \ d

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rjnjhjq d rfxtcndt abkmnhf \ bcgjkmpetncz \ \3RC \ \#- \ abkmnh

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yb;yb[ xfcnjn& \ Bpvthbntkmysv \ 'ktvtynjv \ cbcntvs \ AFGX

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zdkztncz afpjdsq ltntrnjh (cv& hbc& \ 1)& \ Htuekbhe.ott

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yfghz;tybt \3U\!h \#dshf,fnsdftncz gentv chfdytybz \ afp \ rj-\A

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kt,fybq \ gjlcnhfbdftvjuj \ \ b \ \ 'nfkjyyjuj \ \ utythfnjhjd&

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Gjcrjkmre \ hfpyjcnm \ afp \ \)D\9v\#(\3t\#) \ cdzpfyf \ c \ \ hfpyjcnm.

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xfcnjn \)D\9w\#(\3t\#) pfdbcbvjcnm.\,

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)D\9v\#(\3t\#) = \ \)D\9w\#(\3t\#)\3dt\ \#^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \^(\31\#)\,

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\#drk.xtybt d cbcntve \ FGX \ afpjdjuj \ ltntrnjhf \ 'rdbdf-\A

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ktynyj drk.xtyb. byntuhbhe.otuj pdtyf& "nj j,tcgtxbdftn

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fcnfnbpv \ cbcntvs \ gj \ xfcnjnt^ \ n&t& \ hfdtycndj \ yek.

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ecnfyjdbditqcz \ \ \ jib,rb \ \ \ ghb \ \ \ gjcnjzyyjv \ \ \ dytiytv

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djpltqcndbb^ yt ghtdsif.otv ytrjnjhjuj pyfxtybz&\,

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Eghfdktybt \ \ \ afpjq \ \ \ gjlcnhfbdftvjuj \ \ \ rjkt,fybz

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jceotcndkztncz c gjvjom. eghfdkz.otuj ecnhjqcndf \ (EE)-

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xfcnjnyjuj \ \ vjlekznjhf^ \ \ rjnjhsq \ \ bpvtyztn \ \ \ xfcnjne

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utythfwbb& Yf d[jl EE gjlftncz eghfdkz.ott \ yfghz;tybt

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\3U\!h \#^ \ rjnjhjt \ cdzpfyj \ c \ yfghz;tybtv \ \3U\!al \ \#lbaathty-\A

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wbfkmysv ehfdytybtv\,

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\+ \3dU\!h

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \3RC \\*[---] \3+ U\!h \3= U\!al\3.\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \^\#(\32\#)\,

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\- \3dt

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\#Ghb 'njv vs cxbnftv^ \ xnj \ ltntrnjhyfz \ [fhfrnt-\A

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hbcnbrf AL zdkztncz aeyrwbtq dblf\,

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \3U\!al \#= \3S\!al\#\*\9j\#(\9v\#)^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \^(\33\#)\,

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ult \9j\#(\9v\#) - d j,otv ckexft ytkbytqyfz aeyrwbz \ hfpyjcnb

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afp d[jlyjuj cbuyfkf b cbuyfkf utnthjlbyf&\,

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Cxbnfz^ xnj \ htuekbhjdjxyfz \ [fhfrnthbcnbrf \ utnt-\A

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hjlbyf jgbcsdftncz ehfdytybtv\,

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \3f\!u \3= f\!uy \3- S\!u\3U\!h \3+ \)D\3f\!u\#^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \^(\34\#)\,

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ult \ \)D\3f\!u \ \#- \ yfxfkmyfz \ hfccnhjqrf \ utnthjlbyf^ \ \ yfqltv

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htuekbhe.ott yfghz;tybt \3U\!h\3:\,

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ U\!h \3= - \\*[----]\3(\9w\!u \3- \9w\!uy \3- \)D\9w\!u\3)\#^\ \ \ \ \ \ \ \ \ \ \ \ \^(\35\#)\,

\- \32\9p\3S\!u

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\+ \3d\9v\!u \3dU\!h \31 d \9v\!u

\^\ \ \ \ \#ult \9w\!u \#= \\*[---]\#& Njulf\ \ \\*[---] \#= - \\*[----][--\!2\\*-]\#&\ \ \ \^(\36\#)\,

\- \3dt dt 2\9p\3S\!u \3dt

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\#Bp gjkextyyjuj \ cjjnyjitybz \ dblyj^ \ xnj \ afpjdsq

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ltntrnjh dshf,fnsdftn yfghz;tybt^ pfdbczott jn hfpyjcnb

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afp \9v\!u \#= \9v \#+ \9v\!c \#+ \9v\!g0 \#(\37\#)^ \ ult \ \9v\!g0 \ \#- \ \ afpf \ \ cbuyfkf

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jgjhyjuj utythfnjhf GX (cv& hbc& 1^,)&\,

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Lbaathtywbhez (\37\#)^ gjkexbv\3:\,

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\+ \3d\9v\!u \3d\9v \3d \9v\!u \3d \9v

\^\ \ \ \ \ \ \ \\*[---] \#= \\*[--] \#+ \9w\!c \#+ \9w\!g0\ \3;\ \\*[--\!2\\*-] \#= \\*[--\!2\\*-\#&\ \ \ \ \ \ \ \^(8)\,

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\#Bnfr^ cjgjcnfdkzz \ dshf;tybz \ (8) \ b \ (5)^ \ (6)^

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gjkexbv \ lbaathtywbfkmyjt \ ehfdytybt \ dnjhjuj \ \ gjhzlrf^

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jgbcsdf.ott hfpyjcnm afp \9v \#d cbcntvt AFGX\3:\,

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\+ \3d \9v \3d\9v

\^\ \ \ \ \ \ \ \3RC\\*[--\!2\\*- \3+ \\*[--- \3+ 2\9p\3S\!al \3S\!u \9j\3(\9v\3) = \)D\9w\!u \3- \)D\9w\!c\ \ \ \ \ \ \^\#(9)\,

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\#Htibnm \ gjkextyyjt \ ehfdytybt \ \ ljdjkmyj \ \ ckj;yj^

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gj'njve \ \ ghb \ \ vfks[ \ \ bpvtytybz[ \ \ \ xfcnjns^ \ \ \ rjulf

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cnfnbxtcrbt \ [fhfrnthbcnbrb \ EE \ b \ AL \ vj;yj \ cxbnfnm

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kbytqysvb^ \ [fhfrnthbcnbre \ \ htuekbhjdfybz \ \ (9) \ \ vj;yj

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ghtlcnfdbnm d dblt\3:\,

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\+ d\9v

\^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \\*[--] \#= \)D\9w\!yfx \#- 2\9p\3K\!afgx \9j\#(\9v\#)^\ \ \ \ \ \ \ \ \ \ \ \ \^(\31\#0)\,

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\#ult \3K\!afgx \3= S\!al \3S\!u \3; \9w\!yfx \3= \)D\9w\!u \3- \)D\9w\!c\#&\,

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Dshf;tybt \ (\31\#0) \ yt \ exbnsdftn \ yfkbxbt \ abkmnhf^

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n&t& cxbnftncz^ xnj \3RC \#= 0& \ Afpjdsq \ gjhnhtn \ cbcntvs

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AFGX - uhfabr pfdbcbvjcnb \3d\9v\#/\3dt \#jn \9v \#ghb \ hfpkbxys[

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yfxfkmys[ hfccnhjqrf[ \)D\9w\!yfx \#- gjrfpfy yf hbc& 2&\,

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\^\ \ \ \ \ \ \ \ \ \#Hbc& 2& Afpjdsq gjhnhtn cbcntvs AFGX\ \ \ \ \ \ \ \ \ \^\,

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\12.2. \#Gjkjcf elth;fybz b gjkjcf dnzubdfybz cbcnt-\A

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vs AFGX&\,

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Bp hbc& 2& dblyj^ xnj d \ cnfwbjyfhyjv \ cjcnjzybb

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( rjulf \3d\9v\#/\3dt \#= 0 ) hfdyjdtcbt djpvj;yj njkmrj \ d \ njv

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ckexft^ rjulf rhbdfz \ \3d\9v\#/\3dt \ \#gthtctrftn \ jcm \ f,cwbcc&

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Vfrcbvfkmyjt pyfxtybt yfxfkmyjq hfccnhjqrb^ ghb rjnjhjq

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cbcntvf \ \ AFGX \ \ cgjcj,yf \ \ dsgjkyznm \ \ cdjb \ \ aeyrwbb^

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jghtltkztncz gjkjcjq \ elth;fybz \ \)D\9w\!el\#& \ Ghb \ ljcnfnjxyj

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cbkmyjv cbuyfkt yf \ d[jlt \ cbcntvs^ \ gjkjcf \ elth;fybz

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jghtltkztncz \ \ \ vfrcbvfkmysv \ \ \ pyfxtybtv \ \ \ htuekbhe.otuj

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yfghz;tybz^ \ f \ cktljdfntkmyj^ \ vfrcbvfkmysv \ \ pyfxtybtv

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\3U\!al\#^ rjnjhjt cjjndtncndetn pyfxtybzv eukf \,

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\^\ \ \ \ \ \ \ \ \9v \ \#= \ \33\#/2\9p \ - \#2\9p\3n \#^ ult \3n \#= 0^ \31\#^ &&& &\ \ \ \ \ \ \ \ \^\,

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D 'njv ckexft gjkjcf elth;fybz hfdyf\,

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)D\9w\!yfx \9= \#2\9p\3K\!afgx\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \^\#(\311\#)\,

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Ghjwtcc dnzubdfybz d ht;bv elth;fybz jghtltkztncz

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gjkjcjq \ dnzubdfybz^ \ rjnjhfz \ ghb \ jncencndbb \ abkmnhf

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hfdyf gjkjct elth;fybz& Ghb yfkbxbb abkmnhf \ \)D\9w\!D\3<\)D\9w\!el\#&

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Gjkjce \ \ dnzubdfybz \ \ j,sxyj \ \ ds,bhf.n \ \ nfr^ \ \ \ xnj,s

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dsgjkyzkjcm eckjdbt \,

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\^\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)D\9w\!d\3>\#2\)D\9w\!yfx\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \^\#(\31\#2)

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Lkz \ \ \ edtkbxtybz \ \ \ gjkjcs \ \ \ \ dnzubdfybz \ \ \ \ ghbvtyz.n

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rjhhtrnbhe.obt abkmnhs&\,

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Rfr ,skj \ crfpfyj \ hfytt^ \ cbcntvf \ AFGX \ dyjcbn

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lkz evtymitybz afpjdjq jib,rb ghbvtyz.n rjv,bybhjdfyyst

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