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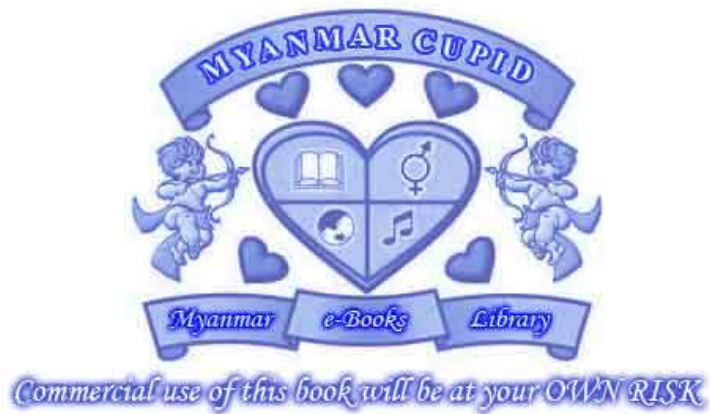
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Micro-Algal Biotechnology By Michael A.Borowitzka & Lesley Borowitzka
(tPt, va*, Z0puoy)/

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av\muom;aeaom trsl;or;wpa,u u owxm;ron/ um;wm;&rm &uaom
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um;u niompm armi;xuvm&i; trsl;or;\ eab;r jzn;jzn;armi;vmly;
&yay;vuon/ cEpa,mue\ &pa,mu oyrx;jcm;ygb;av/

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o tverw0mPaumi;ygon/ xrsuv;rsm;u o raryg/ ar&avmuatmivn; umv
rllumao;yg/ &yvu&n tustjzLEi wuyuy 'i,mem qyiyEi t&y&njriaom
xtrsl;or;u o cuci;rwrviu\ / xtawmtwi; r;u cypypy on;yuvmom/

o|u| i|v|n|u|n|a|e|a|o|m| t|r|s|;|o|r| \ r|s|u|E|m|w|i| &i|E|c|i|r|i|j|c|i|; t|&y|t|a|,|m|i| r|a|w|&|a|y|/ x|a|e|m|u| c|y|w|n|w|n|y|i| a|&|o| a|j|z|i|m|i|w|e|;p|m| q|u|a|v|&m|u|o|m|;a|w|m|o|n|/

o| a'|g|o| a|x|m|i|;c|e| x|o|m|; \ /

||u|n|p|r|;| 'r|e|;r| v|y|g|O|j|y|e|y|v|m|;| b|y|t|i|0|e|x|r|; t|r|s|;|o|r|;u|a|v|;w|p|a|,|m|u| r|;&m|x|r|m| x|;r|y|g|&m|b|; [a|o|m| a|p|w|e|m|u|a|v|;u| &u|a'|g|o|u| z|;v|r|;o|m|; \ /

v|e|c|a|o|m| w|p|y|w|u| b|e|a|m|u|u| o|i|,|c|i|;x| p|m|a|&;í| p|m|t|y|r|m|v|u|l|y|;o|m|; j|z|p|a|e|v|o|m|a|y|g|/ r|r|m|&a|o|;b|;q|v|i| p|t|v|y|u| o|w|w|E|i|o|r| t|c|e|q|x|m|;r|a|w|m|r|n|/ a|z|a|z|w|y|n|r|u|v| b|m|u|;y|j|z|p|j|z|p|/

o|U|u|m|; a|u|s|m|v|m|o|n|t|c|g| t|r|s|;|o|r|;u| i|a|p|m|i|;í|y|i| ||u|n|a|z|m|r|&a|c|/ r|;z|p|p|y|u|a|v|;r|m|;a|l|u|m|i| t|r|s|;|o|r|; \ t|j|z|l|a|&m|i|t|u|s| a|m|u|a|u|s|m|r|m| p|a|e|o|n|u| a|w|&|o|n|/ b|m|v|u|... 'r|e|;r|u| i|g|u|m|;u| r|p|;c|i|b|;v|m|;|/

t|i|;p|e|v|r|;r|o|l| r|a|u|l|r|v|r|;x|y|w|i| o| u|m|;u| &y|a|y|;v|u| \ / t|r|s|;|o|r|;w|p|o|u| c|e|q|i|;||u|o|n|/ t|y|p|a|c|g|i|;a|q|m|i| j|z|p|[e|w|a|o|m| u|m|;w|m|;o|n| t|r|s|;|o|r|;u| u|m|;a|&| j|y|w|i|;a|y|g|u|e|a|b|;o|l| a|v|&m|u|v|m|í| a|u|s|;Z|w|i|p|m|m|; a|j|m| \ / o| r|e|u|y|a|e|a|o|m| r|s|u|E|m|u| t|c|e|r| j|y|j|y|i|í| j|y|;&|,|v|u|&o|n|/ x|a|e|m|u| u|m|;x|r|m|y|i| x|i|í|v|u|0|b|u|a|b|; a|m|u|l|u|n|r|r|e|w|p|q|i| a|m|u|u| v|r|;||u|n|a|p|m|i|a|e|v|u|o|n|/

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&mrawlyg/ um&n lirouaeaomtcg o raeww rxiiww jzpm\ / ti;...wpccawm
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jy; v\ uaom tcg qaqmirrsm; pmjzi vyom; awm\ / or\ tjy; u yxr0; q; t\ ur
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avmen; om; \ / ten; i , &nly; cleaomEmacgi; u & , armv\ uaom Ewcr; Ei tqiajypm
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vnyi; lu , o; tx apywi wyxm; aomallumi 'gvv vnwi0i; 0i; uav; u ajzmipi; pm
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or b , awmr um;U\rp;alumi; o rajymb rsoyxm;vuon/ rra0Ei
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jzpon/ pae&mol ququ rlu rlu a&muvmc&aom olu,o tloaeravon/

]]ri;xi...qmlyvm;u}}

olaemurm a'guwm 0;ri;oe; vm&yon/ o ure;uwe; vnlu n jyl;jyvu\ /

]]rqmao;ygb; q&m? &ygw,}}

q&mab;em;rm trsl;or;Epa,mu cywnwn rsuEmxm;jzi avm uvm on/

]]ri;w/q&m 0;xiausm&Uom;av? 0;xiausmuawm om;wpa,mu q wpa,mu
pwc;, lun&wmy}}

q&mu av;pm;orjzi jyl;aevu&on/ trsl;or;Epa,mu v; tlorom;luyg/
rcir;jrixr wpqi xtrsl;or; oly;ly jzpalumi; o avmi;&on/

]]owu ausmi;rmwe;uwn;u q&m&U tm;tu;&q; wyn'awaygu m? ou
ar,ci?ou cir;jri w? Epa,muv; trtupaw? Zvn; oyaumi;uw,}}

t&yuvn; re;uav;xwi &m;yg;pm jrirm;&mwi tww/ rsuEmxm;awuvn;
cyrmm rsuEmxm;aw? rar,ciqaom trs;or;u u,cEmy0í jynlzl;\\ ,0vuawm
rcir;jriu yeo,aeon/ o ,Oau;z,&m tpr;uejy;jyí acgi;nwvluon/

]] [wu? awl&wm Or;omygw, ciAsm? vityw tutn&&i ajymyg? prue;twu
vityw pmtypmwr;aw &&i uleawm unEiygvr, / Eijcm; pmtyawu uleawm
wpqirmay;v &ygw,}}

rcir;jri\ rsuEmxm;u llun&jci;jzi o celvuronrm rm;om;ly [ovluon/
or ten;i, rsuarmiussom;wm raueyru azmjy [e won/

]]O;ri;xiausm u awmawm aemuwmy/ uiere O;ri;xiausme t&iuwn;u
cirily;om; q&m&U/ jyeawl&wm Or;omygw, ? cijylygO;aem}}

rjy;r&, rsuEmxm;jzi ajmvuaom pum;allumi oUrsuEm aE;ce jzpon;on/
t;w;tr;wr; jy;aevu&avon/ awmawm tnmwr&w re;rygv m;/ xnon oltwu
cuclumjripm tceueveom;\\

eur;vi;í ur;pyo tzuvu qi;luaom tcewi rae nyi;u llualawlxm;aom
pwrouromjzprsm; aysmuu,om;on/

tpr;yya&mi uea&jyion eeuci;aejcnatmuwi awmuypm lirouae\\
ueywvn awmiajcwil pr;armiaom tyirsm; tyqi;vsu&on/ ycswavuav;on
a&nppi taqmutt&&m ur;ajrcmí a&jyiu x;cum ajy;vm;ae\\ avon
at;prvon/ a&telon ve;qe;unvir r&b tewprst; xuae\\ xteu o
o½yrcwwyg/ npp pr;a&a& tewprst; jzpon/

ycswO;yi;wi v&u;rsm; xiivsu vuygvmlly; ou ycswtv,yi; yOwe;ay;wi
pce;wm0ec uw;atmiEitw xiivsu pum;ajymvmron/ rsuEmcsi;qiiyyi;wiawm
rcir;jriEi rar,ciw wwqwpv vuygv mavon/

]]tewprst; &w,aem uw;atmi? bmeiv? a&neivm;}}

]] [ww,? a&nyi&Ute? aemuily; qmvzmeaygAsm/ 'uea&u ytyc; &p 'orig;
&w,}}

rsuEmcsi;qir rcir;jri\ ruv;rsm;on ou a&miwr;jci;rjyb &Op
llunv&on/ tjzla&mi&yvu&n tujzi oron p;&awmuyae\\ bmoeycg;r
vr;jc,rxm;aom rsuEmjyion wi;rwí 0i;aeon/ ruc;u aea&mialumi ten;i,
csxm;vsu&&m aumysaom ruawmirms;atmur euarmiaom rsu0e;on
yrawmuyv&on/ cirwaom vnwir ajyavmpm qi;om;aom v;0e;onyc;rsm;on
u,u,u, llunpwcsr tjynjzi cyrrw &aeon/

]]pum;rpv O;ri;xiu bmar*smel ausmi;ly;ov}}

tloz, &myi rcir;jriu owpum;0i;xol a&muvm on/ o w&i;wE;
jy;jyvur\

]]u!eawmu tuu qi;wmyg}}

]]'v;qawm ytycsqw pum;v;el oyr&i;E;b;aygaem}}

oUrsuEm aE;ce yom; \ / ten;i , vn; a'goxuom;on/

]] [wu? u!eawmu pm&i;Z, m;aw? ueyLwmy^{1/2}*&rawey &i;E;ygw, / 'gayr, |
u!eawmw' aomuaewa&& ytycsu qAi;&&r, \vawm oygw, }}

rcir;jriu vpce jy;&, \vuavon/

awmuyaom tjy\;atmuwi or\ rsu0e; rsm; E;nlorarUom; \ /

]] [wly? t'g t"uyav? obm0a&[m ytycs cep&w, ? yiv, a&&ytycsu
cep'or &puae &p'oro; twi;rm&w, / tc wi;awmiu uea&[m ytycs
&p'orig; ausmaew, }}

or\ tjy\;on yuw oepiunvive;ojzi apmapmu a'goaw aysmuu, ue\ /

]]'uexrm ig;aw ypeaw b, ow0gr tour&iwm t'gallumiayg}}

o a&jyiu vun\;jzi xwly; vun\;u jyeEwvuuaomtcg wvc use&paom
a&wppuon tpr;a&mi jzpa\ / o wtwlo jzpom;um cyw;w; avcevuravon/

]]py^{1/2}vi;em;uawm t'ytycsrm taumi;q; rsl;ym;Eiw, av? tlop&myaem}}

ycswon oyr; r;xm;aom taqmuttwpca&Uwi &yom; \ / ueu&p ci;xm;aom
atmuajctqiay:wi wpcpü a&ppt0wrsm; ci;xm;aom lluuwa&;opom; qecguu
qiajcav(mrsm; [buonbu wnaqmu xm; \ / yw0e;usion a&pypu armwmo?
u!aeom a&owjzi qnae\ / o avay:r qi;vuuly; bu;rm;aom ausmuw;bu;rm;jzi
ajrnxm;on ur;pyur;yg;, u wuvuon/

rcir;jri on re;uav;wpa, mu\ ElaEmi;r? r0r&jzpr v;0r&b avaygiay:r
wpqi ur;pyausmuw;ay:ol zwce ceu;vuavon/

]]rr; a&muvmwm tawmy? 'rm aAmvsl;(r)aw wprsl;p xuaew, ? vyyg0;}}

taqmuttab;bu ajriyay:wi zeyeuav;rm; axmi vsu tvy^{1/2}yaeom
trsl;ori; i, wp0;u tm;u;wlu; vr;ajymawm rcir;jriu orx av(muom; \ /

t ce;(6)

t x u w n w n r a e a & m i o n p ; & p m y j i ; v o n /

a & p p p i o p o m ; q e c g a p m i ; r s m ; t a y : w i o m t r ; & l y ; a b ; y w 0 e ; u s i u
t r ; r & a o m a l l u m i a e a & m i o n o w t m ; v ; t a y : r n m r w m u s a & m u v s u & o n /
p w 0 i p m ; r u , p ? t v y u , p j z i p ; p u a e l l a o m p c e ; u t & m & r s m ; ? 0 e x r ; r s m ; E i b y t i
v u ; r s m ; t l l u m ; w i b m r t v y r & a o m r i ; x i a u s m r m t a l u m i a l l u m i j z p a e o n /

t w a j r m i ; a y g i a y : w i t P l u n r e a j y m i ; u & , m u w i v s u t u s t e x i l l u n a e a o m
a ' g u w m 0 ; r i ; o e ; t e ; w i b y t i v u ; r s m ; 0 i ; & v s u & o n / v i , 0 e x r ; E p a , m u u
a & p p p i t a y : o l w , w u í a & y u u a t & e a l u m i t a e t x m ; y u y : u o m ; o n
a & p p t p r s m ; u v u v x e ; o r ; a y ; v s u & o n / r c i r ; j r i u t a q m u t t \ a b ; b u
a c g i ; & i ; a j r j y i w i a u s m u w ; w p c a y : t u t e x i v s u a & l l z e y e r s m ; x o l a & j z n v i u ?
t p r ; a & m i x x n w i ; v u E i t v y 1 / 2 y a e a v o n / r a r , c i u a & p p p i r s m ; t e ; w i
r w w w & y v s u t 0 w u a w m r s m ; x r a & n E p r s m ; u w p c l y ; w p c p p , & m w i
0 i a & m u v y u i v s u & o n / t m ; v ; x w i b m t v y r r & o r m r i ; x i a u s m o m j z p \ /

r c i r ; j r i t e ; w i r w w w & y v s u z e y e x u t p r ; a & m i x x n r i r i u a v ; u o r
v u x u a v m c j z i r & u x x n w i ; a e o n u a i ; a r l u n a e r o n /

]] t ' v x x n w i ; & w m r y i y e ; b ; v m ; A s m ? p a u ; y g w z e y e a w e l o ; r , q & i ... }

o p u m ; r q ; a o ; r r c i r ; j r i u q w c e v n l l u n \ /

]] a u ; Z ; w i y g w , v u ; r i ; & , ? u i e r w l p c e ; r m y y u b , E p a c s m i ; ? j A l & u
b , E p a c s m i ; & w , q w m & i o & i o y o e m ; o m ; r , }

o r \ r s u E m x m ; u c y w n w n / o l a o m o a & l l q u a j y m v u r \ /

]] v o r l 0 , & r m a y g r c i r ; j r i & l ? v y i e ; w i u s , z ? v y i y e ; o u o m z ? t c e u e
o u o m z l p e p u z }

]] y u q u b , r v }

]] a [m A s m }

o c P q l t o m ; \ /

]]v tyw ueu:p&w top&w ypn;z;aw u'erw pm&i;wi x m; ygw , /
uaumi;axmur&i aemuEpavmuq&i v u(b)ypn;aw &Eiaumi;yg&u}}

o ouji;wpcu ½Lu v uon/

]]t' oreuav;awu bmvymv [i}}

rcir;jriu vuxr orersm;u zeyecsmi;x o' zzuav; xnae&mr ten;i,
acgi;nw\ / zeyecsmi;\ atmuwi tjzLa&mit0wpuav;ji ywly; om;a&ui;uav;
pn;xm;&m oreuav;rm; zeyeatmuajc t0wpay:wi liroupm xiae\ /
xouav;rm;u a&jzipwatmi avmi;cly;aemu xa&rm; wppuci;ua&mu
ueq;om;atmi or apmiaeon/

]]'ou taumi;q; tenxiatmi vyay;wypn;ayg? lunae uea& wpq , uA
piwrwmu 'x xnjyr , }}

o wtwlo lunaeon/

rcir;jriu Aum zecuxwi xnxm;aom py½vi;em; pp,ly;om; a&u
zeyeuav;ji py,vu\ / xaemu xyeuav;u xy0rm vun;jzi axmuywly;
cwxm;aom zeyewix o' xni vun;jyeziv u\ / pr;zeze t&nrm; yexo
uom;on/

cPlumawm zeyexu a&en;en; lunom;ly; atmuajcoay:wi tpr;a&mi
tEpuav;rm; wzn;jzn; xivm\ / rcir;jriu vuywem&u ilunon/ xaemu
av[mc]zi xoay:r tpr;a&mixxnu lu;pm;yr;pm; wi; , avon/

]]awlv m; O;ri;xi...u'erw wxixm;w xxnwi; u&,m b ,avmu[euov?
aiueallu;us ten;q;av? &wypn;e to;0iatmi zew;www taumi;q;y
r [wvm;}}

or rsu0e;rm; jy;vsu&aomvn; Ewcr;u rjy;yg/ o rourom acgi;nwvu\ /

]]u'eawmv ucygw , ? 'g u'eawmw jrermvrs;aw&u ar;&myg t&ntcsi; wpcyav}}

]]r [wb;}}

oru olbuol jAe;ce vnlunon/ rn;euao m ruc;rm; wecs;vsu &on/

]]'g ar;&myg t&ntcsi; r [wb; O;ri;xi&u? 'g b0ay; t&ntcsi;yg}}

]]aumi;ly? u'eawm rji;ymb;/ u'eawmw vrs; [m qyApwu&i; (tpm;x;jci;)
oyaumi;wm u'eawmoygw , / 'gayr , rcir;jriw av[mc [m ao;i , wx xnu zwz
wxixm;wm [w&lv m;/ 'avmu ao;i , wx xnu 'avmuxw av[mce zwwtcg
rup rm;rom;Eib;vm;}}

rcir;jri acgi;nw\ /

]]t'gu oypum;e ajm&i tjriaovjci;v ac:w,/ [ww,/ oytwtu;awm
b ,&rv? 'gayr, tveq; 'or o;rvrwmavmuy umrmyg/ 'twi; xiapmir, tpm;
wpcc vy&i;apmiwm aumi;w, r [wvm;/ yr;r|x xn jyewuwtcg wusom;wmygy}}

or aemua&xxn wpcjzi tvy¹/₂yom;jye \ /

]]pum;u uyajmw, rxieaem? uleawm r&i;wm wpc&v}}

]]&w, av ajmyg}}

]]t' o&xxnu;pvpr ya&mi;r [maum a&nxxnu rajymi;vapEib;vm;/ Oyrm
zeyexrm ae&mtjyn oreaw uspvpaewtcg xxnu wpr& xur, ? oaw
cyyyzply; t' oawxutx a&nu0ily; py, c&i xxnu wpr& xur, r [wvm;}}

oru ten;i, jy;avon/

]] [wu? ou atmuajcrm aumi;aumi; aeom;usatmivyz uierwtm;v;
uir;usiom;ygly? ' prue;pwm 1983 cEp/ 'gayr, wu,wr; tp;& tot rw jywmu
1988cEpqawm 88cEpuy ply; wulluny0;? 'avmu Epawlumum aewi;pr;oyae&w
tvyqawm}}

]]aewi;... [wvm;}}

o\ wtwo tar;alumi or tjy;aymuu, om; \ / ruarmiromom welom;ly;
rsuv;rm; yrawmuyvma von/

]]&iu b, vxivlv? 'pr;oyrawu wpEpwpur vyvrr, xivlv;v;
'grr [w uierw q&maw? vlu;aw vmr vyw, v xiovm;}}

]] [m r [wb; r [wygb;/ uleawm xiwmu wpywwpbur 'grr [w...}}

oru Ewcr;u rau;í rjy;csijy;csi jy; \ / o ten;i, tm;emom;on/

]]vawtm;v;twu ta&oyu;w tm [m&ypn;wpcu uierw xwvyaewmyg
O;ri;xi& \ upm;p&mypn; xwaewm r [wygb;/ 'ypn;tay:rm vxu , lunoavmu
tjrwr;wwus; reaez uierw bu;pm;&rmy r [wvm;/ , lunru uierw b, awmr
tvio;pm; rvygyb;/ uierw aep0pr;oyaewm 'xxnuav;wi rub;/ a&nрмаep0
tcewi; yg0iaew buw;&, m; yg0iEe;? yrm;ui;piz? uea&& t, vumv"mw
tw;tavsm...t'gawtm;v;u uierw av;av;pm;pm; vyaeluwmyg/ uierwqrm pae?
we*aEqwmawmi r&ygb;}}

]]uleawmawmi;yeygw, ? uleawm qlvwmu...}} o b, v&i;jy&re; royg/

or acgi;nw \ /

]]upr&ygb;? O;ri;xi ajymcsiwmu uier em;vnygw, }}

owEpa, muv; cPwwqw lirouom; \ / or vyuiaeorlu o
ai; lunaeron/ rwppmtyxwi *Pe; rsm; ca&vu? xxnwi;vujzi yw0e;usi \
ty&eu roovyi jzp \ / wwqwru oru lzcviuon/

]]O;ri;xi...aemu xy tluaumi;uav;rsm; aq;aE;p&m &ao;ovm;}}

or rsu0e;r tjy;&yu owxm;rojzi o pwvuaygyg;pm jy;vur \ /

]] [wu? aemu xy tluay;ciwm wpcuawm... a&nxxnu tjreq;&ze
twtuq; &zitwu vlyppe tenxiatmivyw u&,mwpcavmu pce;rm
0, xm;zygy/ t'gu uleawmurPuwpqi p&wpu en;en;e rm, 0, ay;Eiygw, }}

x;jcm; qe;lu, pm rcir;jriu toxu &,armavon/ &,orm xe;cyr r&
yivi;vwvy \ / rcir;jri &,armoalumi a&pppi atmuu rar, ciyi zwce
vnlunavon/ o aysm; \ /

]]oyau mi;w tluOmPy/ t' Centrifuge u&,mwpcavmu pce;twu 0, ay;zi
ouqi&mu uer tp&icpm wioi;vuygr, / 0, ay;r, ypm;u awm O;ri;xiw
urPaygaem}}

]]oy aocsmwmaygA sm}}

ae v, aey' Pon rqoavmu avmen;om;ov cpm;& \ / rcir;jri \ tjy;u o
b, avmu vityalumi; b, avmu wez;xm;alumi; yxr0;q; tur ouu, o
owjyrom;on/

t m^{1/2}p;pu t vyvyaeaom rcir;jrite;r cmvsu a'guwmO;ri;oe;te;o
xuv mccsewi olupw lunviaygyg;ae \ /

O;ri;oe;u armunon/

]]unO;rv m;}}

o jy;&, í acgi;nwvuawm O;ri;oe;u xi&mr xay;on/ t Plunreajymi;
to;jy;ci;u o oyru;r;uiyg/ olaom ,c qvuawm a&wppu u ^{1/2}; ^{1/2};yg0g ter
t Plunrebv;zi lunji;jzpí oltwu rcucyg/ aemu ly; orsm;ceay;ly;om;]qwm
jzpí yv, ygon/

tpr;a&mi py&iy tactvruav;rsm; typrsm;pm awl&on/ wcsuu pyí
lirouaeon/ t Plunreajymi; wpuupm tus, t0e;xwi a&nyiuav; trsm; tjym;
y;uyaeavon/ prao;i,aom a&nyiuav;rsm;u taumi;q; tm [m&jzn ypn;rsm;
jzpaenrm tlop&m/ o qvu u wjzn;jzn;csi; a&u, í lunon/

5reprq luny;ontcg o li;aiUom; \ /

t0wtwrsm;jzi a&u ppaeon ae&no avqm uom;lunron/ ywptjzLa&mi zi
a&ppv uawmyu;rsm; jzpatmi jylyvxm;ly; xa&pptwau;rsm;xol a&nEprsm;
tqi qixní a&ppaeluon/ tptq; puu&,mwpcrlygb a&yur a&nrm;u
yxrq;t0wtwxr wpqily;wpqi t0wuawmrsm;xol a&cuji cy, xnae&aom

vyie;p0u llun&i; o pwrourom jzpv\ / b ,avmursm; Zaumi;vuuygvr/
a&ppqecgrsm; \ atmuwnwn ueu&pci; llur;jiay:wi ausmuy;0v
ab;t em;wpavlm u ajrmi;βu;azmxm;aomallumi qecgru:aeaom uea&rsm;on
ajrmi;xrwpqi uexo p;q i;om;aeon/ uexr a&uawm armwmjzi pywií
qecgapmi;rsm; \ tay:r a&yucrsm;jzi jzn;ni;pm usqi;apvsu &on/ p o o&m on
p uea&rwraum or jzpy:uaern o o&m jzpon/

ab;yw0e;usiul armlunvuaomtcg wi;βu;\ jrirm;aom awmie&rsm;on
aumi;uiwrxEi xvrwwjzp\ / awmie&wi aygua&mu aelluaom opyirsm;on
aey&eu rrov yi pr;armi v:u&on/ ueab;ywvn ae&mu uuuuav;om
vaetrajczply; [buwjzn;jzn; jrilm;aomtcg ausm uw;rsm;? opyi ½i;rsm;jzi
jynv:u&on/ rupwq; armlunorrm r;aumi;uiem; a&mu aeon wi;Ewcr;
e ,erwrsm;om jzp\ /

rZm [aom pum;u o em;vnnvmon/ vr;ye;quo ,a& bmr|r&aom wi;βu;xrm
jzpon/ ½y&i ½r&? ap;r&? pw;qir&? vr;r&? pm;aomuqir&/ b ,v
vae&mwpcygvr/ &mEiwaom tcu [í pce;taqmuttrsm; te;u be;βu;ausmi;Ei
,c a&pppi txucyvr;vr;u oc;i;ue;om &on/

b ,v ay&irrs;e 'wi;βu;xrm or llum&n&ywnaeov/

]]O;ri;xi}}

torm rsuEmcsi;q i& rar ,ci xr jzp\ / o ten;i , a&w;om;vuon/

]] [wu}}

]]tc 'rmo;aw a&pptpaw b ,avmuwer ,v xio v [i}}

or\ rsuEmrm cywnwn/ olaom rsuv;wi &i;E;ciriru awlae&on/

t...? o t0wprsm; \ wez;u oyroyg/ arar clyay;aom t u svcsnu
0wvu ½jzi 0wqirvyie; jynpom;ygon/

]]'g yv t upwmp ac:w , r [wv m;? ti;...wpuu u wp&mau smav m u...}}

rar ,ciu cy [[& ,avon/

]]'g a&awmiwu x&ep &i? wpuu u 67u:yy &w ,? xm;yga w? wpuu u
wprwme;yg; &w ,qawm 'tp [m wprwmu jrermi 70u:yaygaem}}

or ajmcsion t"ym ,u o buwiwuqrl; oabmuspm jy;vu\ /

]]t 'awm...}}

]]t 'awm...tc O;ri;xiqu ,r , Euwu(u)(p)tpu wprwmu
a':v mwp&m qawm jrermi cepaxmiaygaem}}

]] [wu}}

o rcjy(, jy(vu&avon/

]]'awm a&n|ueacsm x uwa&erm a&awmiwux&epu o;wmxu t qwp&m
yxuEiygrvm; [i}}

]]½L;...w;w; ajmygAsm? v&u;aw llum;ueygr, }} xlaemu o toxu &, vu\ /

tm&yvr&wpa, muu oaw0,atmi a&mi;Eiaom ta&mi;u, pm;v, wp0; \
uir;uipm qaqmrr&zi o tvyvya&ci; r[wyg/ ypn; a&mi;&z' t"uusaom
tworm;wpa, muvn; r[wyg/ rcir;jri\ vyie;on o\ vyie;vn; jzpon/
rcir;jri\ atmijriron o\ atmijrirvn; jzpon/ wpen;tm;jzi jrermEii\
atmijrirvn; jzpon/

]]ueawmu rar, ciw prue;twu taumi;q;jzpatmi unay;ciw qEwpcom
&ygw, Asm/ py½vii;em; tri&U tus, e nr(w tpwpc jzpv' tptay:rm trsm;βu;
tm;u;Eiygw, / pr;oylunao;wmayg/ ot&wpc jzpv&z' pr;oycuaw trsm;βu;e
p&wmr [wvm;As}}

]]q&mom;u q&mvy pum;ajym aumi;w, | r;a&}}

rcir;jriu xii&mr xav(muvmly; ou rjy(r&, vr;llunon/

]]'gayr, | wpzuom;u en;en; cewwwmawm q&mei rwb;}}

yivi;aom or\ xijricsuallumi olrsuEm aE;ce jzpom; \ /

aemuq;awm uaumi;axmurpm rcir;jriEi Epa, mucsi; awlqci u &om;on/

npmpm;csawi tem;rm xri; [i;rm; ppOay;aom ciarmite;Ei tw pum;ajym&i;
xri;Epye;ueueatmi pm;ypvuon/

]]pm;...O;ri;xi? 'gawtm;v; ueawmvu&mc;n;y}}

re;uav;ym uEUuv&jzpa&aom ciarmite;u o wtwo cs;u&r \ /

]] [m...tr∨aw cuwm r [wb;vm;}}

ciarmite;u re;uav;vyi Ewcr;rau;jy(, \ /

]]b, [wrv tpu&m? rwxm;? q&metw ygvmor {nonawu au;ar;zi
a0, smOptm;v; a [m' ciarmite;y? owu ueawmu un½av;y}}

Epa, muwn;&aom pum;Oi;on &, armorsm;jzi aE;ax;om;on/

]]xri;pm;ly; ysi;ae&i ueawmei vu&cav/ [bu tr&om;aqmirm wA&w, }}

&euermwe;u b, awmr wA rlun&jzpaom rixion pwi;pce;wi wA
&aeon&twu pwouom&m &om;avon/

]]'ae r;om;ui;piw,/ 'gallumi wi;awmirm wA llunviiywom;r,/ r;&mwaerm
0;ri;xi jriapciw,/ bmqbmr rjri&atmi 0g;ly; w*p*p jzpaea&m}}

n&pem&cl;ciwi ½jriollum;xm;&m tce;xol rcir;jri 0i\vm \ / &no ,aom
trsl;or; t&ywpc olla&llrm ay:vmuwn;u o 'wce &iceom;\ / armlunvuaawm
azm&i;&y tnEpi; tqituzi rcir;jriu pwvy&m;pm jrivlu&avon/ oron
cgwi; jriaeuxu yí vyaen/

]]allom...{non &aewmy}}

or\ cytututou tucw&orawm tce;xol 0ia&mu&e ten;i,
welqwa[e won/ ou 0r;omtm;& zwac:vuon/

]]vmg rcir;jri tawmy? pum;ajymz! tazm&ly}}

oEi rvr;rur;u xe;vu uvm;xiwi or 0ixiaomvn; ow awmawmEi
pum;rajmijzpluyg/ orurxm; pwipum;ajymrvn; [apmia&mr ll*vowwi; vmcsetx
pum;wpce;r rajymray/ or &&mol rorom tucwllunrawm oru wAu pw0ipm;pm
llunaen/

t i;...igr pum;rajym&i '0i;u 've ly;om;rmy/ wpccawm ajym0;r jzpr,/

ajymrnajmijzpawm pwxrm tjr&aen talumi;t&mu ww;βu; ajymrvsuum;
jzpaee \ /

]]'ge' pum;rpy wi;awmiu ypri;vm&llvm; [i}}

b&m;...b&m;/ ri;xi...'gxu yaumi;w c0;uyrrsl; r&awmb;vm;um/

or zwce wtwlo vnllun \ / ri;xi en;en;uav; rsuEmyom;on/

]]ypri; [wvm;? bmtwu ar;wmv}}

rx;awmygb;um/

]]uleawm 'u pmxn&i pma&muzl v ,rv , ocivlyg}}

or cP llirouom;\ / xlaemu wAu rsuEmr&i; at;wat;pu pum;ajym \ /

]]'rm pmwur&v pmyorm;vn; rvmb;? 'gayr, bwvlu pce;u um;jzpjzp?
wi;&mu wpa ,mua ,mu jzpjzpa&mu&i [uae pmu ay;viuwmy/ llrawvawm
rjreb;/ vr;ye;quo , a&ay:rm rwnw ,av}}

b ,ollx pma&rmv [or rar;yg/ olaom acwynmww trsl;or;wpa ,muyy or
&yrrmygy/

orte;wi xiae&ici;jzi t&m&rm jynpaeov cpm;&on/ ol&irm jzpay:aeom
E;noncpm;ruav;on olutloatmi zew;ay;vsu &on/ orxr a&c&ly;p
vwqwaom &ewpc ar;yaeon/ a&ar;el r[wyg/ or olu p;p;pupu
tucwaeaeom tsetcutwewi wAr Bu;rm;aom wium;Bu;rm;? ppvueu
ypn;rm; tajmutusm;rm;jzi pp0wprsm;on orupxwi a00g;om; \ / p trst;or;on
o awlz;or re;rxwi a00g;om; \ / p trst;or;on o awlz;or re;rrsm;wi
pwvy&m;r ten;q;jzpon/ olr[w pwcpm;ru txe;cyEiq;re;r jzpon/
avmuu &iqi&mwi orw vrs;rm;on atmijriwwuon/ q;jzwp&m&vqi
ao;at;at; q;jzwrnvrst; jzpon/

cPtllumwi or zwce x&y\ / o ure;uwe; armlunivuon/

]] [m...rlunawmb;vm;}}

o c&O;uyy jreqeve;om;vrrsm; allumuo;avovm;/

]] [wu? ll*vwowi; ly;lyy? O;ri;xi qu lunav}}

]]bmjzpv\ v[i? ueawme'rm twxiaewm roiawm&i ueawm jyettygr, /
rcir;jri xiaecyg}}

o x&yvuon/

]]roiawm&i [wvm;? b ,ou roiawm b;v ajymrmv}}

or rsu0e;rm; ten;i , E;naeon/

]] ['i; yw0e;usi...}}

or olu wtwlo ypzi pulun\ /

]]b ,yw0e;usiur bmrxi rm r[w b;/ cPae&i wAZmwvr;lunzi
tz\om;awtm;v; a&muvm\urmyg/ ow ye;ueaq;aelluvy/ O;ri;xiu bmaw
t"ym , r& aw;yaevlv}}

yuw ½;om;aom or rsuEmxm;allumi o yiouwpcsu ½uvuon/

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r\uluwwb;? om;r , aem}}

tce;uav;on ½ww&u ajcmuaolom; \ /

xxuom;zi roiawmre; owjylrí quxiaec&aom ri;xixol tjcm;0exr;rm;
a&muvmí pum;ajym\uaomvn; ri;xitwu wppwp&m vp[maeov cpm;&on/
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aemuwpiur ppce;ol a&muz tcita&rm tveen;yg;von/ tvyupu
 talumi;jy&erm rjzpEiawmoavmu ueq;aely/ rsuEmyyji vmviaum.../
 talumi;jycu &&? r&& vmv&wmy r[wvm;/ vwi; wi;awmiu tvntyw
 avvma& vmaeluwmy/ Eiijc;om;awawmi vmluao;wm/

$\frac{1}{2}$;aeovm;/ b,lorq wi;awmiu wpacguvmlun&i vavmulyu/ ri;u
 b,Epcg vncsi vlv/

uum...b,Epcg vmvmayg/ b,olu $\frac{1}{2}$ puae&rmv/ re;rwpa,mu u yw,q
 awm 'avmuawm rsuEmajymi&my/

taw;jziyi ol rsuEm aE;ce yom;avon/

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tce; (7)

wi;pce;wi Epntly; o;&uajrmuaeol a&muaomtcg owltm;v;jyez' ypn;rsm;
or;ly;ly/ xtcsewi rcir;jrirwpyg; tjcm;aom Oexr;rsm;Ei' ciri&i;E;ly;om; jzpaely/

owltm;v;on azazwynrsm; jzpcuon/ owltm;v;yi azazu cspciav;pm;lu
on/ azaz tvyxuonup? a&xuypn; ar;jrla&vyie;wi tp&, ,m0ily;
tvx0ionup? azaz\ ao;w;a&m*g ouom&m&om;on uptm;v;u ri;xiausmEi
aq;aE;pum;ajym&i; &i;E;r &con/

b ,oEirq ciri&i;E;z' Oerav;aom ri;xion Ep&utwi;rmyi ciarmite;Ei
pum;vuq ajymly;ly/ ciarmite;rm tvevaom nrav;wpa ,mu &re;vn; oly;ly/
xinrav;u vwumawmi;wi; yg;pyzi tv ,wu ay;wwallumi;vn; oly/ oluawmi
ciarmite;u p aemuaeo;\ /

]]O;ri;xiu vysl r[wvm;? uieawminrav;u acsmw ,As? pmvn; oyawmw ,}}

o jyl;aeaomtcg olu rcir;jriu cywnwn vr;lunaecon/

olu tzlom;tm;v;u ta&mi;u ,pm;v , wpa ,mutjzp oabmrxm;b
q&mO;xiausm\ om;tjzpm oabmxm;lu\ / tout&,csi;vn; oyrumvay/
trsl;or;tzlxiwi toutlu;q;u rar,ci jzpon/ tm;v;u oru rmr[ac:ozi
yxrwi o tlora; \ / olaom aemuyi; ouyg rmr[w&i;wE; ac:&avmuatmi
&i;E;ciricavon/ trsl;or;tm;v; cEpa ,mujzply; xt xrm traxmiusly;aom
trsl;or;Oexr;Epa ,mu ygalumi; o o&on/ uaumi;axmurpm xEpa ,muxwi
rcir;jri rygOiyg/ trsl;or; emrnawuawm o a&max;aeq jzp\ / rar,ciEi
rcir;jriu vvi useon trsl;or;rsm;u emrnreatmi rac:Eiao;b jzpaen/
wpcgwpcg wiat;&[ac:rou lunlunjri jzpaely; cijyl;vi[ac:rou cslar;
jzpaewwon/ tm;v;u Oi;[m;awm o en;en;&uom;um emnrnac:b pum;ajymz'
bul;pm;&awmon/ trsl;om;Oexr;rsm;uawm emrnEiv wí rwry/

wi;awmiolt0i um;ay:rmuwn;u aq;aE;csiaom iuzsm;a&m*g tallumi;u
tzlom;awEi aq;aE;jzpluon/

]]'em;wp0uu iuzsm;e ,ajrawy? tm;v;xrmawm wi;awmiu iuzsm;u tq;q;v
ajym&rmy/ yvypr' , r z , v'qay&r trsl;tpm;av}}

o rcir;jritwu p;&rom; \ /

]]u\wi\umu\,ly; aq;pm;v\ r&b;v\;Asm}}

]]&wmayg? pm;aewmyav? 'gayr ,...}}

pce;wm0ec uw;atmiu yc;welum jy\;on/

]]uierwipce;rm trsm;q;aq;0g;u iuzsm;aq;y? tp&w,/ uei; pm;aq;&w,? y¹/₂irmui;&w,? yi&uZi; &w,? uv¹/₂ui;&w,? x;aq;awvn; &w,av/ byti u tpay;xm;wmyg/ aemu\ly; q&m0e r&ayr, use;rma&rL;&ygw,? pwryyge\ 0;ri;xi&U}}

rar,ciu rsuv;omjyl;vsu cywnwn rsuEmay;vyí ri;xiausmu pwlunajym awm o b,vaere; roatmijzpom;on/ awmygao;&U? rar,ciu rcir;jriu apmi;irlunayv/ lunrsm;\univ\i ri;xi xi&mr jAle;ce xajy;rrn/

]]tr, 'gxu ta&u;w umu,ypn; &ao;w,av rmr&U? 0;ri;xiu ajymvuyg0;}} ciarmi0;u a&n\twxr a&awu tm;EirmeEi npc&i; cyaemuaemu ajymjeavon/

o rcir;jri\ rsuEmu vr;r\unratmi xe;c\yxm;&\

igrsu v;awursm; oyo omaevovm;/ 'uygv\m;/ 'avmu Epnty &uyi;uav; twi;rm ow\ &yrom;ly q&iawm iguu nive;v\ jzprmy/ a[m...bmqliv? ig urPtwu tveye\ vmwmy? re;r vmy;wmr r[wvm/ o rsuEmu cywnwn jzpatmi xe;xm;&i;u [eaqmiy&rm r[wre; oaejyeon/

]] [wwmayg? umu,zltwu jciaq;ac txyvu &w,av/ ri;om; jciEiaq;acaw vp0cwr;xrm jciaq;ac tjrygw,? rye}}

xlaemu owitz\om o[ewaom talumi;wpccjzi 0g;ce atm[p&,arm\uon/ bmre; roaomvn; tz\om;rsm;\ aysm&iru o\ x u;puom;\ / o a&ma,mií jy\;ron/ rcir;jriuawm cyvr;vr;rm or\ zeyersm;jzi tvy¹/₂yum jy\;¹/₂jy\;aeon/

]]jciruluatmi vr;waq;aw &w,r[wvm;}} o t\uay;rawm ciarmite;u vuumjy\

]]&yw ajymwm r[wvm;? u\eawmw\ r&wm \umv\y/ tcawm jciaxmix a&muraerci; rvjclawmb;ayg/ jzp&i aq;aomuv\uwmyav}}

o pwrourom jzpom;on/

ur;ajcrm tvyvyae&i; aomvn;aumi;? a&xrm (Oyrm...aE&mo) avjzi a&naw v\uq, ,aep0 aomvn;aumi; jcirub;b\ b,E,v\y\y; pwcEiygrnen;/ "mwcce;wi ruu¹/₂puwu \liroupm tm¹/₂zp;puí \unaep0? a&pppiab;wi a&nyg0iEe;u zeyersm;jzi pw0ipm;pm wi;wmaep0? a&npiwi a&nrm;u a&npxwly; a&c\jzi oepiaep0 b,ae&rmrq jciuluEion/

]]u\eawm t\uay;r,Asm? ciAsm;w\ tvyci0wpu wwEior\ u, cEmtom;u z;atmi 0w\uayg}}

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awmawm xuwww,}} rcir;jriu vr;ajmcsrm o rsuEmen;en; yom;ly;
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o cy[u[u &,vsu acgi;nwvu\

]]v,ygw,| rmr&m? jcivpumwy wuce;taqmut taw aqmuay;z' 0e;u;q
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eeu 10em& x;awm a'guwm0;ri;oe;Ei bytliu;rm; ajrmubu a&pppir
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wi;aep0 rcir;jri\ p;puaom rsu0e;rm;? wpcuwpcsu rsuarmicxm;aom rsuc;rm;?
"mwcce;wi or ar;jrlxm;aom py½vli;em; reavmiueuav;xr a&wppuu
tPlunreajymi;jzi lunp0 wi;wi;apxm;aom Ewcr;rm;? wpcgwpcg rausreyji
bmre;rouaom pum;v;u cyw;w; a&&wp0 vy&m;om;aom Ewcr;yg;uav;rm;?
"mwcce; reavmiuexr a&u ytycwi;on pulu&, mav;jzi wppucsi;
ta&micjcm;wi;aep0 uir;usio ,vaom vuacsmi;rm;/

&eue jyea&muonwi arypzi c ,0;aom or\ tao;pw trt&mrsm; jzpon/

re;rwpa ,mu\ vr;r;ru we;ve rypEiaom oltopwu ojei
pwq;aeron/

p trs;or;on b ,olurq txup;r tucwi pum;ajymrn trs;or;jzpon/
p;&&0aom rsuv;rm;u rnolur t m;emvrrn r[walumi; azmjyaeon/
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r[walumi; ten;i , &evpm azmjyaeon/

orur o bmjzpv a&c; , í c0; uyaerygvr/

oUtaw;x a&mu vmaom a&c; , r... [aom pum; u o taotcsm p0; pm; raomtcg
av; vaeaom &iu en; en; aygyg; om; ov &on/ a&c; , r... [o; Ee; ly quwn; u 'g
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typuawm um; ab; em; tx av | mu v m í Ewqu on/ xitypxwi rcir; jri
yg0iaeaomtcg wi; pce; r rjyer use&aeor repyi; uav; on vr; qw atmwarz , &m
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ai; armlunr \ / r; &yr; ai | jzi tyrreri; aeaom aumi; uiatmiwi or &yaeyu
tm; rmewi; xm; y ay: aeon/ tm; v; u jy | & , í vujyEwqucewi or ten; i, r |
rjy; yg/ or \ t lunion olxol a&mu v m \ / or rjy; yg/ vuvn; rjyyg/ olaom
oEi rsuv; ci; qrp0 or \ taetxm; rqpavmuuav; , r; , iom; \ / or
rupv vuly; ajc vr; ten; i, jyiv uavon/ o en; en; uav; au eyEporom; \ /
ri; xiausm [aom a, musm; wpa, mu urmavmuwi wn&aealumi; re; rwp0; taejzi
totrw jyivujci; jzpon [o , qon/

um; te; wi uy&yaeaom ciarmite; Ei rar, ciu owl m; v; u jy | & , í
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]aemu v n; vmv n0; aem 0; ri; xi}} [olu ciay; u | qon tcsewi rcir; jri
Ewcr; rsm; u wi; wi; apxm; qom jzpon/

x t csewi um; u pwi xucgon/

x t csewi rcir; jri \ rsuv; rsm; olxol aemuwpur a&mu v m \ / onwpcgawm
o xe; clyr&awmojzi oru ai; armlun&i; u or wp0; wn; u jy | jyvuon/ or
jye í rjy; yg/ olaom acgi; nw í Ewquv u \ / vuEpzu wi; wi; yuvsu? Ewcr;
wi; wi; apxm; &i; u acgi; unw í Ewquvuaom or \ [etrt&mu o b , awmr
araysmuEiawmrn r [wyg/

tjyec& um; ay: wi aemuwpur b , vqaw | Eiatmi zew; &ygrv [aom taw; jzi
&iwpcv; jynluy av; vvsu&avon/

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t ce; (8)

wevmael eeu 10em&cwi o &eue jyea&muon/

trrma&c\;? xri;pm;ly; ½;ol xuc&\ / ½;a&muawm aelv , 12em& cly;aely/

azaztygt0i vlu;rm; aelv , pm om;pm;aellucsejzpí olpm;ywi wixm;aom
ig;pmxwvyr pm&i;Z , m;u pwrygpm zwaevuavon/

azaz purPol 0ia&muvmcserpí , ciu oltce;uav;rm azaz tce;
jzpm;on/ xtcg oltvypm;yon p'gvw pm;yrsm;en;w ½;ce;rxwi
a&muom;avon/

cPlumawm azazEitw p'gvw om;tzyg tww 0ivmluon/

pm;ym o xiaewm jriawm p'gvu c\jrpm jy\;& , Ewquavon/

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o ten;i , jy\;í acgi; , r;vu\ /

]]wi;awmi om;wm rEav;om;wmr r [wb}}

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]]'gayr , rEav;uae jzwom;&wmy Opm q&muvn;}}

'gv\ tazu cyjy\;jy\;yi olor;acgi;u ywvsu tce;x 0iom;\ / ri;xil
pm;yem;rm &yuecou azazjzpon/

]] tqiajy&v m; om;}}

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&euermuwn;u Nitex Filtre Cloth uwpq , rwm 0 , , rnjzpalumi; azaz
oxm;aomalumi vn;aumi;? wi;awmiu , ciu wpacgu a&muz;xm;aomalumi

vn;aumi; wi;pce;tawUtuU azaz pw0ipm;rm r[w[oxicon/ o\Xijricu
rm;om; \ /

]]cir;jriea&m aw\c&\v m;...}}

]]ciAsm...}}

o jAe;ce q\tpm azazu armlunron/ azazrsuEmu wnliraeon/ o
bmajm&re; roatni jzpom;ly;r]] [wu...}} [t o w r w r j z i a j z r a v o n /

]]bwwp&mupa&m ajyvnclyvm;...}}

]]ciAsm...}}

azaz qvc;iwmu o aemuupm oabmayguvu \ / o wellqwpm jii;vuon/

]]t'up... rajmjzpcb; azaz...}}

]]allom...}}

]]ueawm;wm urPtwu o m;wmyg}} [o b , v r s u E m x m ; j z i
xyrtalumi;jy&ygrnen;/ o lz;je;xm;aom bwwp&mupu o araeontwu
ou , oom t j p w i a e r \ /

azazu ri;xiu rjy;r&, lun&i; acgi;wnwnw vyaen/ xlaemu
O;xiausm [qi;bwwyxm;aom tce;x o 0ia&muom;avon/ o rorom ouyi;
c\vu& \ /

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olwi jzpay:aeaom x;qe;on cpm;ru ou , wiyi ra0cEiao;yg/

&eueo\ jyea&mucgp &ur sm;on o\twu on;rcEiavmuatmi tx;use
qeve; \ / &euejyea&muly;p &ur sm;wi o\ixrm tjrwr; &aeon/ wppwpc
vp [maysmuq;vsu&ov cpm;ae&on/ xcpm;csuallumi jzpay:vmaom
raumi;us\wpcrm olpm&i; rsm; vacsmrm; , i;aejci;yi jzpavon/ wp\urjyepaq;wi;
trm;wpc xyxyaw\ae&aomtcg pm;yay:r pm&ut m;v;u pjy\q q w y p c i p w
ayguayguom; \ / em&0uavmu llumatmi pwujyexe; , r olpm&i; reueom; \ /
x t c g r d ; w i o r c j y l ; o m j y l ; w w a v o n /

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Commercial use of this book will be at your OWN RISK !

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Commercial use of this book will be at your OWN RISK !

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]]uier pum;r;q;ao;b;}}

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a r m u c r u i b y u v u u i x m ; w m a w l & o n / o l a o m j y ó e m r [w y g / 0 u a c g u u i u
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]]'gayr, | 'tpulu py^{1/2}vii;em; pp, z | xwvyxm;w tpy r;}}

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Commercial use of this book will be at your OWN RISK !

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v v m; jci; won or ajmaom t u s; t j r w x w i t u s; 0 i a e o v m; / u e a w m c i A s m; q u
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]] [i v m j y e l y ' a p w e m ? ' g j z i u e r a r ; w m & i a j z O ; r a y g ? u e r q u w u , u
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o l p w 1/2 y p m p m; v u p y e; u e u c y l l u r; l u r; w e; y p v u \ /

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& z p w q E [m ' w , j z p a y: v m w p w y g / u e a w m c i A s m; u t v j z n q n; a y; w m u
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]] a e O ; ? u e a w m p u m; r q ; a o ; b ; / t l o y t a & ; r y g b ; q w m u e a w m b O t w u
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a w m 1/2 w e 1/2 r e ; r w p a , m u & u & l o m ; E i o n o p u m ; u o r r w e v y o n t j y i j y l ; y i
j y l ; v u a o ; \ /

]] " m w c c e ; y p n ; a v ; r j z p p a v m u v u a q m i a y ; l y ; & i u r e ; r w p a , m u u
v u x y , r , [w v m ; ? y p n ; w e z ; c s i ; e n ; e n ; u m j c m ; r a e b ; v m ; O ; r i ; x i & , }}

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r[w|b| oyu q;0g;on| tajctae jzpygon/

]]u|eru t'"mwcce; ypn;avmuy wez;&w ,|v| &i| ovrww ,ayg aem}}

]]r;}} o| v;0 on;rcEiawmyg/

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]]ciAsm; pum;wwwi; u|eawmu| acsmiywyw rar;pr;ygel/ c|p|ci;arwm qwm
bmer wez;jzwv| r&b; r;? tc u|eawmay;w v|uaqmi[m ciAsm;u| wez;
jzwwm|v|n; r[w|b;? ciAsm; en;en;r| em;rvnb;Asm/ wu ,wr;awm ciAsm;[m
u|eawmb0rm wez;tjriq; re;ryAs/ u|eawmtou|xuawmi wez;|u;w re;ryg/
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o| acgi;u| txyxy cg , r;aeron/ b ,|v| &i;jy&ygrv/

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]]b ,a ,mu sm;ur v|uxyz| &n& ,| rxm;yg|b;/ t'|xrm &i|vn; ygwmayg/
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]]bm v? 'g wpzu vne b , rmaevv ar;vuwmvm;}}

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]]r;witrmm ze; &w ,aem? &&vm;}}

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]]'gjzi u'eawm u wpcawm unyg/ rEav;[w,e r;tre' b ,Eprep llumatmi
um;armi;&ov cere;vu? t't'cseu wuly; u'eawm r;q ze;qulu nyg&ap? 'gr r;
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]]'gayr , ar;ce;av;u ynmom;ygve;awm ze;eygw ay;cipw ayguom;w , }}

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tce; (12)

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& , armvurav on/

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]]r;twu...}} [^{1/2};&i;pm a&v u^{1/2}ji ly;jynpom;ygon/

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]] [m...azazuawm vy|ly}}

o| jy|;ppjzi| acgi;wpc;u| uwv|ur\ / araruawm o| v;Or&uyg/

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olaom cPlumawm olte;o a&muvm\

]]reawu om;0 ,vmwmawm r[wb;}}

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]]at;...xiom;y? rewqyaw jri viuwme 0,ay;viuwvu cere;v&w,?
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]]rajyb; azaz? tijw jii;vwvuwm; 'gxu aocsmwmawm r&awmb;}}

]]araruawm t'owi; lum;&wm Or;omw,? om; touuav;u ti,av;
&ao;wm u,/ re;r,z i ,ve;ygaow,}}

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'gayr , uleawmu vjyur r[wwmy azaz&/

]]olu yiqi&z xu olvitycuawu ab;u tucwly; wwEior
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To Essential Moe...

With Love.

M.

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vac: acgi; avmi; uav; u Eyly; wprepavmuu m r o w c g; \ v 0 i a y g u
u s 0; u s 0; u a v; y i o m; \ / r s u E m x m; c y q; q; v u; w p a, m u t a y g u r u e; \ u n \ /

]]rcir; jri & \ t r [w y g w , a e m]]

]] [w y g w , / ' g a y r ,]]

]]rcir; jri v m w t c g ' y p n; u a v; a w a y; a y; y g c i A m]] o p u m; j z w a j y m v u \ /

x v u r, c i l, c i l y p r s; j z i v r; , \ / v 0 i a y g u u a v; r j c t w i; x j r i & o r \ r m
j r i r m; a o m a & a [m i; y p w u t e \ u; E i w u a & \ r m & y x m; a o m v i; (') 1 / 2 A m t p r; a & m i u m; o m
j z p o n / v r & o v w w q w l i r o u a e w m r t \ o y g /

]] b , o u a y; o m; w , v \ a j y m & r v]]

]] u p r & y g b; / a y; w v u o o y g w , ? u \ e a w m o m; a w m r ,]]

x v \ y p r m r; E i a q r s; e; p y a w m y r & y g / j c a p m i t v y o r m; y p r s; j z p o n /

x a e m u w i a w m o l t v y r m n a e c i; w p c u e q; o m; a t m i p w & n v u & n
a p m i q i; j c i; y i j z p o n / n a e c i; w i o r \ t v y o r m; r s m; u v c a y; j c i; j z i o r
t v y 1 / 2 y a e r m a o c s m o n / b m t v y o r m; a w r s m; v / b , E p a, m u a v m u & r v / r; E i
y w o u o r \ o t u e p w 0 i p m; a e \ /

n & p e m & a & m u a w m o x e; c \ y E i p r; t m; v; u e q; o m; a w m o n /

w p v v; v; a t m i t n; r \ o y c & a o m t v y u o p w v y & m; p m v y o m; \ /

r; x w , v z e; q u v l u j c i; y i j z p o n /

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o e m; x o l t b m; \ u; t o w p c 0 i v m o n /

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]] b m; b m; ? r; e m; a x m i a e y g l y b m; b m; & \]]

]] y; a & m]]

w , v z e; a q m i c s o w p c u o e m; x o l u e l v e \ u; 0 i o m; \ / r; \ t r w i l w , v z e;
E p c & & r n [\ o c e l r e; v l u o n /

]] 0; r i; x i y r [w v m;]] t o u c y r m r m a y r , \ x t o u a v; u y i o c s p j r w E; v y g o n /

]] [wygw , | r;? r;t b m; a'gyom;w , e ww , ? uleawm pwraumi; ygb;}}

]]bm;bm; a'gywm &itwu pwraumi;p&m r [wygb;/ bm;bm;u 'vy/ wu , wr;
a'gywm uier&i}}

o | jy;vuiron/ t'pum;uav;awuy o lum;ciaeygon/

]]&i uierpum;u *½rpuw oabmayg/ bmvuaqmīr ray;yge|v uier rmxm;wmu
&i *½rpub;}}

o bmrrijmyg/

]]aemu|y; &i uieru quo , p&m talumi;vn; r&awmb;av/ &iaus;Z;aw
uierqrm r&awmb;}}

o toxu & , vu \ /

]]'g & , p&m r [wb;}}

]]r;& , a'gori;u;yge/ uleawm r;q ze;quwmu r; aeaumi;&vm; ociviyg/ r;
rEav;u acsmacsmarm a&mu&vm; ociviyg/ r;&ll ue;rma&;? r;&ll c&;om;vma&;twu
uleawm pwyv| ze;qulunwmyg}}

]]uier bmrrijzpb;/ 'avmuo&i aseyly r [wvm;/ aemu rquygeawm}}

]] [m...aeygO; r;&ll? uleawm b , rmwn;ovqwm rar;awmb;vm; [i}}

]]pwr rOipm;wm}}

xaemu wpbuu tquto , jywom; \ /

r; [m wu , u uleawmu pwrOipm;b;/

or\ wjyerrsm;on ri;xi\ a , musm;rmeu qay;aeon/ re;rwpa , muu &z
'avmu atmuusaemuus cO;uy&re; tcr oon/

uleawmtwu re;r r&m;ygb; r;&ll/ tcsqwmom ryg&i uleawm 'wpacgu
rEav;awmi a&mu vmp&m talumi;r&ygb;/

aemuwae ee u Ei;rm; aOaecsewi o Ei;qjcol vr;av(muom;pOrmawm
wu&u&ive;vu & \ /

tjzLa&micsn; 15yi &aomtcg o tveaysm&iom;on/

Ei;qjzlye;pn;u zi u; tjyma&miuav;jzi pn;vuavon/ Ei;qye; pn;&mwī
uīr;usiom;ly jzpī v;O q; rp;awmyg/

rEav;lr\ wwqwlrouaeq jzpaom ee7em& Ei;rm; a0aecsewi o
r;wjca&ol a&muaily/ en;en;&uaeaom rsuEmu cywnwnvyum
vac:acgi;avmi;uav; Eyvu\ / raelu vyil v0iauguuav; yilom;ly; raelu
vlu; \rsuEmu jri&on/

]]rcir;jri &ygo vm;}}

]]&ygw, ? b, ou awlcsi w, vl ajym&rv}}

x tci ta&u to;cve;yq; jzpo m; \ / olaom r&ru xe;clyí ye;pn;uom
ay;vuon/

]]up r&ygb;? 'ye;pn;u ay;vu ygaem}}

r; &aeaom tra&lr olq;jzwcujzi jye vnxucmvmcsewi &ixrm vp[mvsu
&on/ wi;awmiwe;u Ei;xxr r; \rsuEmu o zwce jria, mirum
pruEmuav;u xyrawlcsipwu ren;bu;pm; í xe;clyxm;&on/

r; tloatmi vywmawm [wyg& azaz/ o tlo rtloawm rob;? u'eawmawm
awlciijricive;vl &iwpcv; emusiaely azaz&/

rEav;[w, rm o wn;vrrn[r; aw;raw;ygrvm;/ rEav;[w, ze;eygwu
vw;oygon/ [w, u r; ze;quz qwmawm rar[mviaumi;aom t&mom jzpon/
olaom o r&ub 0ec&vli wpaelv; [w, rmyi aelvnpm pm;vsu tce;xrm
vavsmi;apmipm;aeconrm r; \ quo, ryi jzpon/ olaom obm0uspmyi r;xr
tquto, r&yq/

{nbuXneu trs;or;uav;u u'eawm twu ze;rm;vmovm; [r&uralumu
ar; , &avmuatmi ol 1/2; oypm ar[mviaecon/

olaom r;xr bmr rquo, yg/

x tclg r; \ rsuEmuav; rjri&apumr touav;jzpjzp llum;civaom ri;xium
ze;qu&awmon/

ol uq;om; \ /

]]r;...}}

]]r;r [wb;u, ? r; t bm;}}

]]u'eawm r;el pum;ajmyg&ap bm;bm;}}

]]r; tay:xym &w, / igu rmxm;w, / ze;vm&i t bm;y pum;ajymvu ygw?
oltce;xu ze;uawmi o aumuruiciw oabmaygu, ? b, oer pum;rajymciw
t"ym, y}}

]] [wu ciAsm? 'avmuajym&i u'eawm em;vnygw, }}

]]bmup &v\vu,? b ,u quwmv}}
]]ueawm tcnæ jyer ,qwm Ewqucsiviyg ciAsm...}}
]]at;...at; ajymv\ur,? ri;emrnu b ,owv}}
]]ri;xiyg bm;bm;}}
]]wi;awmiu r[wb;aem? 'emrn ig rob;}}
 o rcjy<; jy<;vu\ / r;u ueawmtallumi; wpcgr rajymz;b;qw t"ym ,aygaem/
]][wu? ueawm &eueuyg}}
]]&eueuae rEav;u bmvmvywmv u , }}
 ueawm re;r vmy;wmyg ciAsm/ oltaw;jzi o jy<;& ,rom; \/
]]r;t wu Ei;qye;awe ig;aowmb;aw vmay;wmyg ciAsm}}
 'g trew&m;ygy t bm;& , /
]]acwumv uav;awrsm; awmiawm½;wmyaem}}
 o toxu & ,vur\ /
]]ueawm Ewquwtallumi; ajymay;yaem bm;bm;? aem u\ v ur wpcg jye vmygr , }}
]]Ei;qye; vmay;ziyv m;}}
 t bm;βu;Ei pu m;ajym&wm o aysmaeon/
]][wu? jciru uw vr;aq;a&m vmay;rmygciAsm? bm;bm;a&m &eueuae
 bmr mO;rv}}
]]ig rjriz;w vquæ ig bmr rvciaiygi}}
 rcir;jri&U t bm; yoygayon/
 c;pvpmaom r;\ rsuEmwi;wi;uav;ur rjriawl&b jye vmc&aom c&;jzp\ /

t ce; (13)

Zee0g&vv , \ ee u t½Pwu wpa&E;tc&wpcwi o jAe;ce ty&mr veE;
vmc \ /

o E;E;csi; zwce xxiivuratmi tlowu; jzpaen /

o jciaxmitr; / Zmjciaxmi \ yg;vmru azmuxi; i jriae&aom ue;o;xyom; e&/
e&rm cswxm;aom tucsw/ ab;rm&on t0wA½/ oon oitce;wi;rm a&mu&aejci;
jzpalumi; aocmatmi cPavmu tm½p;pu ae&ao; \ / aemuawm o &euerm
&aealumi; vucvu&on /

r;... / 'gjzi apmapmu [m tyruayg/

r; \ rsuEm on o wpcgr rjriz;aom n;Er;on rsuEmxm;uav; jzpon/
awmuyaom rsu0e;rm; ar;revsu? Ewcr;uav;u jzlazsmvsu/ r; tem;wi o
&yacon/ r;u o pum;aw trsm;bu; ajymaecon/ r;u wpce;r jyerajymyg/ r;u o
i lluna&on/ r;on ty&mvv tci;wpcey;rm yu'vu'vav; / r; \ 0wpr m
tnla&mi'v'v cyarmiarmi 0wpwpc jzpon /

o r;u wpcgr tyru rruz;yg/

r; aeau mi;&lv m;/

wi;awmi o yxr0;q;tur o a&muom;aomaeon wi;&mr m vytm;ay;
au smi;q&mrav;wpa , mu iuzsm;a&m*gjzi aoq;ly; tobconae jzpon /

wi;awmi o 'w , tur o a&muom;aomaeon rar , ci iuzsm;a&m*gjzi
aq;½rqi;ly; wpvajrmuaomae jzpon /

wi;awmir &eueo jyea&muly; o;&utlumwi wi;awmir vlu'jzi o&aom
owi;wpcrm wi;pce;u r;woi ,csi; uau mav; iuzsm;a&m*gjzi q;om;alumi;
owi;jzpon /

tcwpacgu rEav;r jyevmvmcsi; o&onowi;rm r; \ oi ,csi; oEivn;
ciriaelyjzpaom llunllunjri aq;½wu&alumi; owi;jzpon /

wi;awmiwi iuzsm;a&m*g tjzprsm;vsu&ly; wi;pce; 0exr;rsm;t m;v;
iuzsm;a&m*gallumi aq;½rllumcP wuaelucsewi r;\ tyruXu ruEmn\;n\;uav;u
o b , v\ araysmuí &nnen;/ 'g [m pwpvl ruwmyg [b , v\ ajzorEirnen;/

b&m; r v\ r;wpa , mu use;rmygap/

o&iXrm yavmi v\su &avon/

pm;ywiem&u vr;\unawm eeu 4 em& x;&e 5 rep/

oon r;\ ue;rm&ive;aom avormrmuav;jzi ajmonpum;u tccsuci;
em;axmicsivmon/ olaom ,c&uyi;rm wi;pce;rmom r; &aevr rn/ wi;pce;rm
w ,vze; r&yg/ o llumr& jzpum pm;yay:r r; vuaqmiay;xm;on a&ar;yvi;av;u
ai;pulunaeron/ r[wao;ygb;? en; wpccawm &&r ,/ r;&ll use;rma&u 'uae
vr;oEir , en;wpccawm &ae&r ,/

r;\ b m;b m;u o ze;qu&rn/

olaom ,cv eeu 4em&wi ze;vr;quygu r; use;rmaecseom qv\i t b m;b u;
olu b , avmu a'gyvurv/

oon eeu 6em&tx yyiaomu u Zwuwrrw r\oyxm;&on/ 6em& x;aomtcg
ruEymi rop&ao;r o {nce;o a&muom;on/

w ,vze;u wpbuwi uirno &ygap [qawmi;&i; eygw cEpc v\vivuon/
wpbuu csuci; aumuuaomtcg o 'wce &iceom;on/

]] [v...}}

avoawm cyrrm/ olaom ten;i , tavmwu;Eiaom t b m;\ to/

]]t b m; rcir;jri tc b ,rmv [i.../ o aeaumi;&llvm;}}

oltou at;aq;wnlliratmi b ,vr xe;c\yr&yg/

]]tc ajymaewm b ,uv}}

]]&eueuyg t b m;? r; aeaumi;ygw ,aem}}

]]raumi;b;u}}

o'acgi;u e*xu tqrwe bu;vmov yxpm cpm;vu&on/

]]r; aq;½wi xm;&w , }}

b&m;...b&m;/

]]iuzsm;vm;}}

]]at;? bwviuaely; raenu r&mu ajymi;wivuw,w/ igu raenur
ze;quluw,}}

r&mtx ajymi;a&l&on qawm r;tajctae rw;wuvlayg/ olvuzsm;aw yr
at;pu wi;luyom;\ /

]]tajctae...}} o qurar;Eiyg/

]]owvpaew , w}}

[m...om;ly/ o w ,vze; vwurom;atmi *½pu uivuu&\ / ig bmvvy&ygrv/

]]tbm; uleawm vuvmyg&apaem}}

]]ig tcy r&m om;awmrv}}

]] [wu? uleawm r&m vucygr,? 'ge r&mu quo ,llunz/en;vr;...}}

tbm; &wjyaom ze;eygwu o pwjzi tvwusuvu&on/

at;jraom Zee0g& eeuci;wi o &iwpcv; jynluy yavmium ac;jyeae \ /

r;on tyruxuvyi ruEm jzLazsmvsu&on/ tyruxuEi umjcm;onrm
rwxm;aom ruv;rm;yi jzpon/ rucrm; csliaely; ten;i, nla&mioe;ae \ /
ez;wi ac;rm; ppwaeon/ r;\ vuzwpzuwi t&nllun yvi;wpv;r
uonyujzi tywe;ve; puoi;ly; yvmpwm uyxm;on/ xvuu cwiaygiEiwí
yww;pjzi cnaEmixm;wm jri&awm o &iqlom;on/

jzpr jzp&av r;& ,.../

r;\ ao;e0rm; ayguuuey; ao;t;jzLazsm qwavsmom;aomallumi ao;oi;&rn [
tm;v;acgi;ci;qii wiyilup0rm r;twu vityaomao;u tue azmuxway;cipw
jyi;jyacon/ olaom o r;twu ao;ay;vlí r&yg/ tm;v;\ ao;rm;u
azmupplunionitcg olaom btyp jzpaee \ / r;\ao;u at trsl;tpm; jzpaeygon/

pw"mwcirmy&aom r;\tbm;on cwiab;wi xivsu r;\ vuzwpbu
rvy&m;atmi xe;ui&i; rsu&np pe;xi;on ruv;rm;jzi ajr;u wprpr
llunacon/ a,mu;sm;jzpaeeomallumi vemluncce r[wb w&m;0i 0icir&aom
ri;xiaawm tce;x0ivuu? tjyiyexuvuEi pwyeru xe;clyz owr&b
jzpacon/ r;u ao;oi;ay;aom xrtijm0w oemjyl q&mr;u;u wpccar;ciivsu
ar;rxub jzpacon/ *sluwu tjlEi cy& , & , q&m0ewpa , mu jzwavlmum;on
tcgrmawm o ure;uwe; ar;vuawm \ /

]]q&m...uleawmu wpcavmu unygq&m? [rcir;jri&ll tajctae uleawm
oyg&ap}} q&m0eu olu p;pr;pm lun \ /

]]uleawm ajymly;om;y? 'g 0;aEmuxu iuzsm;y; a&muom;wm? ao;e0aw ayguuily;
ao;t;m;vn; oyen;om;w , }}

]]t'twu u'eawmw olu aemuxy bmunEi0;rv q&m}}

q&m0eu Ewcr;uav;om jy\;/

]]otwu taumi;q; u'eawmw unxm;ygw,/ ob,buvuuae iuzsm;y;u wucuzl aq;&noi;ay;aw,? nmbuvuuae o&U ysup;om;w ao;twu tpm;jyeoi;ay;aw,? oliuzsm;y; trsl;tpm;u ao;azmupply; u'eawmw oxm;w,/ 'y;trsl;tpm;&U q;0g;w tus;quawu umu,wtaee a&m*gvuPmawu em&0uwpur apmiiunay;w,/ ausmuuyu xcur &r& csuci;oEiatmi q;u tjrppply; wucsiw, lunaew,/ tzm; oyr;u;atmi a&c0w tyay;w,? iuzsm;r[ww yjcm; buw;&;,m;u umu,zl ajcmuem&jcm;wpcg y#Z0aq;aw oi;ay;aw,}}

]]tcx bmjzpv ol ovr&ao;wmv q&m}}

q&m0eu oujyi;wpcsu cs\;/

]]ol iuzsm;y; wucuru xixm;wmxu yly; jyi;xe eu^{1/2}i;aevlaAgAsm}}

]]tou tE&m,u xcuEiovm;[i}}

]]tretwi;ajym&&i vem&U tajctaeu u'eawm twtus rajymEiao;yg b;}}

ol emusiyyeao m &ijzi yiouwpcsu ^{1/2}uvuon/

]]vemt看 vitywm reorl u'eawmw/u toay;yg q&m? aq;0g;e ywou vjzpjz? ypn;u&,me ywou vjzpjz? ae&ma'oe ywou vjzpjz}}

olpum;on q&m0eu apmum;ov jzpo m;Eion/ olaom ol v;0 rwwEiyg/

]]u'eawm ajymciwmu 'vyg q&m? u'eawmw ^{1/2}y0wlypn;csllwralumil r;u tq;^{1/2}rcEiyg b;? u'eawmpum;rm;&i ci vwygaem}}

q&m0eu ten;i, wi;rmaom rsuEmxm;u avlmc\;/

]]upr&yg b;? vem&iaw&U ty'Pu u'eawmw em;vnly;om;yg}}

q&m0eu vnxuawmrn[e jy\;/

]]cPav; q&m? tc...tc avmavmq, u'eawmw bmvym;&0;rv}}

q&m0eu jy/on/

]]ciAsm;w vyEiwm uawm qawmi;zly}}

qawmi;z.../

xpum;u tjc;wpa,muu ajmv|i o vucEiaomvn; q&m0ewpa,muu
ajmvuaomtcg o awmawm rccscom jzpon;\ / 'g[m q&m0ewp0;qu
ar|mvEior| pr;aqmiryvm;/ olaom o pwu av|mcí ajzorv|u&on/

ow|taee| owbuu vityor| vyay;|y;|yqw t"yg,y/

]]r;u tirwe acgi;rmwm vav;&|? yuquav; rzppavmu&w 'tvyu xuz
t b;m;ajmaewm llumvyg|yu, / ou 'a&nawu awmawm oa,mZO &wm}}

t b;m;pum;u t<ui;r o axmucygon/ oron aialu;allumi p tvyu
vyaejci; r[wyg/

t b;m;u yg;pyr wvyvyEi b&m;paw &wvu? ou pum;ajmv|uEi
aqmuwn&mr? wevyvsu&on/ t&y cyyyy? qyijzL awmawmvr;aely
jzpaomvn; rsu|v;rsm; rmausm q? Ewcr;yg;r pum;orsm;u titm;tjnygq/ yg;a&m;a&
we½rwyg; tou78Ep [xiEip&m r&on r; \ t b;m;on cpciav;pm;z , &m jzpon/

]]igtwu ' ajr;uav; r&v| rzpb;/ t b;ru bmo;v| r&b;? tvum;
viw½;r? igajr;uav;om r&&i igzi| aowmllumv|y}}

t b;m;&, ? uleawmtwu vn; t b;m;ajr; r&v| rzpygb;/

v|tyon| aq;rsm;u 0,ayjci;? venjy|paom t b;m;u *½wpu
vwmjznqn;ayjci;? r;tem;rm t&ywlunllunji| u|,cEm taetxm;Ei ao;yvi;?
aq;yvi;? tytaetxm;u xe;c|yay;jci;wtji o wjcm;vyEion t vywpcrm
b&m;&c; qawmi;jci;y| jzpon/ olb0wi b,we;ur| onavmu o&P*
rwnz;b;[xion/

o;&uww tajctae rx;b tx;oenjy| q&mruav;rsm;yiv|i| rsuEmraumi;awmb
jzpvmaomtcg t b;m;iawmon/

]]igajr;uav;u b,olur 'ua&muatmi rvycb;? oluom 'ua&muatmi
vycluwm/ rom;pxrm igajr;u tajzmireq;? t½;om;q;? igajr;u b&m;ollum;
apmia&mygap}}

ouawm en;en;r rsu|v; yirvmontji| ua,miacsmujcm; jzpaom r;u
wprpr| lun|vsu &iemusiae&on/ aemuq;awm b&m;a&llrm opmqz| q;jzwvu \ /

rr\ vy&ywpcu wiwnly; opmq&rn jzp&m oon olb0ouwr;
wpav|muwi ajzmiirewnllunr b,avmu &cov[jyevnqe;pp lun\ / rbtay:
wm0eauaom om;jzpcovm;/ r[wyg/ oon ,cwi rbu rcae&qom jzpon/
yw0e;usitay: ½;om;o jzpcovm;/ oon r;ajmov omrea,musm;om jzpaomallumi
aulywr? u|,u|s|&mr? vrnmr? [eaqmiraw &con/ rrEwuxuaom pum;on rr
r, llunaom pum;rsl;aw jzpjzpaewwon/ ausmi;om;b0we;u rrallumi re;uav;
av;ig;a,mu rsu&nusc&z;on/ rr wu,c|prc|p rob cpon[vrnmí
orsm;tcpu &,yiqicz;on/ wpae raw|v|i raeEion pwqEwpcu tcp[
xirm;cz;on/ rrtay: allumon[xion oi,ci;rsl;u r&ru tEi,
vupm;acs;on/ x|trm;rsm;u trm;[tretwi;oí wiwnopmqv|i| jzpEiaomvn;
olb0rm 'gxu aocsmwmwpc &ygao;on/

r;u rr\ touxu yí cþjrwE;rci;yi jzpon/ r;\ pwc;r;oma&;twu
rrqErsm;u pe;vwEijci;yi jzpon/ b0 tppt&m&m vyz? atmirizitwu
wwEior\ jznqn;ay;vjci;yi jzpon/ a, mu;wpa, muu re;wpa, mutay:
t;cpEiq; twi;tqtuejzi r;u cþjrwE;rci;yi jzpon/

preueaom pum;u opmqv;u r;\ toucr;om&m &ygrn;qawmi;u
b&m;xwi qawmi;vuravon/

q&m0eaw? oemjy\q&mrawu owuorallumi[, qly; ri;xiu ow
uortay:wi rr\ opmjznpuralumi[, qon/ tbm;uawm uoen;ci; tww
ajr;uav; uaumi;v[, qon/ b, oaw b, v, lunonjzpap t"utcurm
oa&muly; av;&uajrmuaewi r; owjyevn &&vmjci;yi jzpon/

r;u tbm;u;vn; rwrn/ wuwuqiqi aμaeom rar, ciw typuvn;
wpce;Epce; pum;ajmEion/ vty\ aemubuwi rm;rm;u; &yaeom ri;xiuawm
pueaygi;rm;pm ai;pulunaevon/ o ten;i, tm;ay;jy\; jy;jyvuygon/
o&ixwi 0r;omralumi uweu, i jzpaev\ o\ 0r;omaysm&iru taumi;q;
r;a0cpm;Eirnio wpa, mur\ r&aomtcg o q&m0eu om;awlvu&on/

]]q&m... uieawm oy0r;omaew, ? o ow&vmwm aeaumi;wmaygaem}}

q&m0eu olu uav;wpa, muu jy\;ov jy;jy\ /

]] [wwmayg? o&u iuzsm;y;u uieawmw Eivulyayg}}

q&m0e\ ynmrmeu o vucpm acgi;nwvuygon/

]]uieawm aemuxy bmvvy&0;rv q&m? o tpm;pm;z bmawrsm;...}}

q&m0eu vuunijyon/

]]t&ny wu&r, v\ uieawm rmxm;w, av/ wpcc ciAsm; au;r, vywi; em(p)u
ar;ly;rau;yg? [wlyvm;? wjc;tm;&r, tpmtcaw bmaw rau;rapeaem? ciAsm;
taysmverallumi uieawmvem rq;½;yg&apeAsm}}

q&m0e\ [mopum;alumi olrsuEm&ce jzpom;um xe;csly&aumi;re; oom; \ / ig
awmawmallumiwmy/ 'avmux ig pwrvy&m;oiib;/

ig;&uajrmuaomaewi r;u olu yxr0;q;tur pum;pí ajym \ /

]]0;ri;xi tvyu 'vy ypxm;wmyvm;}}

o 'ae&m aμaeawmu r; raueyb; xiyg&u/

]] [ww, ? uieawmurPrm uieawmu r&rjzp vitywm r [wygb;? ½;reae*sm
qayr, pm&i;uiigy r;&? ly;awmr tvyta;u;awu pjy\vyrmayg}}

r;u v\Uuaom tjl;uav;jzi lrouom;on/

r;\ vur ao;yvi;? aq;&nyvi;? tyrsm;u jzlw&aomaeon r; qejyw
pwiaomuEion aelvn; jzpon/ t bm;wuaom qejywu uav;oz, lroupm
aomuaeaom r;on tveluiezmiaumi;aom re;ri, uav;wp0;om jzp\ /

r;wi &aeus rmermersm;? wi;rmrrsm; aysmuviivsu tjypui;piruom awl&on/

]r&rm a&muaevlayg r;&m? &euermomq&i r;u uleawm luupwjy/w
aumi;aumi; vyay;Eiw, }} [ojl;í ajmawm r;u x;ptwi; zwce jyeajym \ /

]bm v? qiu 0, ay;rm r [wvm;}}

ti;...r;u uleawmu awmawm txiao;wmy/

r&mlr\ x& lunlunjriwtro t bm;cPiyely; a&r;cs; tem; , aom
wpnaeci;rmawm r;twu aumzu o u,wi azmwuci &om; \ / r;u aumzu
aomuly; en;en;jyl;on/

]t' twi;q&i wi;awmirm uerwuw aumzu 0;ri;xitwu awmawm nrmyaem}}

o bmrrojmyg/ rnygb; [vn; rnmcsiaomallumi jyl;½om jyl;ae \ /

]aumzazmwae&m? uwrelv;w ae&m? zeyvi;aw b;aw pwae&rm uerxu
omw, }}

r;xr yxr0;q;aom cs;ul;pum; jzpon/

]uleawm awmwae&mwi trsm;u; ueao;w, r;&? r; wjzn;jzn; ovrmryg}}

r;\ yxr0;q;aom ruapmi;vvuav;on o&i xo jrm;wppi;vyi eu½i;pm
pu0iom;avon/

]r;u r;ao; r;zawmi r;rar;wwb;v t bm;u ajmw,? t'ae&rmvn;
uleawmu omwmyA? uleawm araru r; rvmw reuawrm tjr r;ar;ay;aeu}}

]gey ueru txiü;&rmvm;/ r;ar;w tvyu trazmu tuir;usi q;ayg}}

olruEm vityonxu ½lrjyvuawm r;u &y&yuav; jyl;ae \ /

]aemuly; reu ty&mx apmiaw jciaxmiaw acguwae&rmvn; uleawm
uir;usiwmy/ uleawmtce;q arar v;0 vnlnunp& rvb; r;? uleawm tusaw
vc:naw uleawmu, wiavlm? r;yuwum tustey}}

r;tjl;u yr yji vm \ /

]aepr;y0;? &i t' t&n tcsi;awe uere bmqivlv &i}}

vrrmEi rwaom cyqwqw avoalumil o 0r;omom; \ /

]]allom...r; uleawm u vuxywtcg... t' vyie;awu r; uleawm twu
vay; aep&m rvb;qwm r; oxm;apcsi vlyg}}

o twnaygu rsuEmxm; jzi p aemuron/

]]vmjyely? ' vuxywpum;? re;raw[m a, musm;awu bmv vuxyluov? &i
ovm;}}

]]cspvlaygAm}}

]]r[wb;&i? tm;u;luwm/ igb0u ouawm apmirllun^{1/2}Eiaumi;& qwtaw;rsl;e
ar[mviwu; vuxyluwm/ vuxyw,qwm u,yi tpr;tp r&w re;raw?
orm;ajcaxmue &yiciw re;raw& tvyv/ 'gayr, oem;p&m aumi;wmu owl[m
a,musm;awtay: tretwi; rjriEilu&mb;/ vuxyly;w tcgusawmr tretwi;
jrilluawmw,}}

o r;u cyjy;jy; ai;lunaeron/ rypu twe;xu ausmi;om;awu acgi;p0wpc
&i;vi;ajymjyaeovrl;/ r; pwc;r;oma&;twu o pum;axmuay;vuygon/

]]owl bmu tretwi; jriom;luov [i}}

]]a,musm;wpa,mu[m traxmiusom;wtcgrm Eysve;qe;om;ly;awm re;rwpa,mu
[m traxmiusom;wtcg tpmom;w talumi;av/ brijzpv/v qawm re;r[m olrm&or
on;cEipr;tm;v;u via,musm;tay:rm pjylay;tyvu&ly;awm a,musm;uawm o&u
ar;&myg Eivri;xu jylvpw? yip;yiei; vycipwawu vuawt o;cici &om;vy}}

o oujyi;wpcuu ooomom cvu//

]]r;&u traxmia&; tb"rmu;u allumup&mygv m;}}

cgwi; jriawlaeus rmersu v;rsm;u r;xrm jyevnjriaw&ontwu o
Or;omauseyygon/

]]t'g traxmia&;e ywouw pwyi;qi&m trew&m;y &ao;w,/ ^{1/2}yyi;qi&m
trew&m;u 'gxu em;rcomp&m aumi;w,}}

]]t' em;rcomp&m r;&u xijricuu uleawm em;axmicisygw,}}

]]xijricu r[wb; 0;ri;xi? wu,jzpaewm/ re;raw[m a,musm;awqu
vcsiwm rsm;rsm;r&b;? o;rsl;y &w,/ opm&, ? tlluie m&, ? vjclr&,}}

wen;tm;jzi r; vcsiwmaygaem/ t' o;rsl;v; uleawm ay;Eiygvrr, r;&, /

]]'gayr, a,musm;awu t'gaw wpcr ray;b;/ wjcm;wpcuy ay;w,/ re;rawtwu
t"uvitycu r[ww owlwu vitycu;jzpw upwpcayg/ tr,...uier pum;rm;awmr v ay;wm r[wb;? ay;csia,mi aqmily; ,wm}}

b&m;...b&m;/ o r;u wtwlo ai;armlunaeron/ r;&, 'traxmia& tjriawu
r; b , ven;e' &vmcov/

]]re;rawqu ow ,wmawuawm ra&wuEiatmiu rsm;jym;ve;v| aq;aE;&&i
em&aygi;rsm;pm ueom;Eiw,/ t"uajym&&iawm re;r[m vuxyly;wme wplyieu
re;rom;wpa ,mu&U pr;tiawreor| aysuu ,ly; ow vtiqEawu tceera&
jznqn;ay;&w pu¹/₂ywp¹/₂y jzpo;m;w,? om;or;aw ar;ay;&w pu¹/₂ywp¹/₂y? ow
opmrwm azmujym;wmu lircae&w pu¹/₂ywp¹/₂yav}}

]]r; a ,mu&m;awu re;aew ,}}

]] [ww ,? uier re;w ,/ a ,mu&m;awe ywouor| tm;v; re;w ,}}

r;ur cpraom ri;xi uq;r;armiugci;yi jzpygon/

]]r;&U azaza&m re;p&m aumi;o v m;}}

r; rsu\ v;rsm; ta&mivuce p;&om;\ /

]]urmavmurm uier tre;q; vu tazy...? o [m zciwpa ,mu&U wm0evn;
rausb;? via ,mu&m;wpa ,mu&U wm0evn; rausb;}}

ppum;u| p rwm rm;ly[| o ovlu\ / tm;en;aeao;aom envex
vrrmwpa ,muu vityonxu pwvy&m;ci;z| raumi;yq/

]]Or;en;ygw , r;? 'pum;u p rwm uleawm rm;w ,? r; aumzueatmi aomuly;
tem; , ygaem}}

or acgi;nwly; yiouu w;wwpm ¹/₂u\ /

]]avmu&u;rm vaw[m oi ,csi;awu a&;cs,Eici &w,/ cpou a&;cs,Eici
&w,/ traxmizu'u a&;Eici &w,/ 'gayr , uq;wmu rbaw ntpuarmiErawu
a&;cs ,Eici r&b;aem}}

w;ww tm;aysmaom touav; tzm;qwí we ,iom;aomtcg o eice
alluouom;ron/ yg;vyaom Ewcr;av; wi;wi;apí llirouom;yrm jrwe;¹/₂r|ru
lluioem;z , &mvn; jzpon/

b , v| 'ursl;awe &iqic&v\ v r;&, /

r; \ &n v sm; o ,aysmi;aom vuzsm;uav;u trwrxi gynprvuonrm
wPmpwjzi r[wallumi; r; or oEiygvm;/ o aemiwpwjzi vuu tvewlum;
jyevwvu\ /

r; v\UOu rsl;oyxm;aom tallumi;t&m rsm;u xwazmí &iqiay;csion/
zciwpa ,mutay: rauseypw? re;w;pwjzi r; tuolvpw Oiaewmu twwEiq;
z , xway;csion/

r;\ oA½uav;ay:wi o wiay;xm;aom Ei;qye;put;uav;r oi;y@aom &e'rm;
y\$viiv\$u &on/ r; acgi;t;ab;wi t b'm; &wzwaecaom o&r*v'm y&wawm
pmtyuav; &aeon/

]]r; pwlun'viatmi u'eawm w&m;pm zwjy&rv'm; [i? aAmZ'iow em;axmirvm;?
"m&Py&w em;axmirvm;}}

r;u [uce toxuatmi &,\\

]]au;Z;wiygw,| O;ri;xi? t' y&waw u'er pwv n; r0ipm;b;? em;vn;
raxmiyg&ape}}

b ,\v\ re;uav;ygvr r;&,.../

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tce; (14)

r; tu\$ vc\$nvjci;? u, cEmu oe&i;ay;ji;? u, vr;aygi'g a&ar; ponwji
jyiqiay;ji; tvyu tbm;Ei tx;oemjy q&ruav;u tjrvyay;av&y; aelv,?
nae r;\ pm;aomur wm0etwu? r;\ A½rm Ei;qye;put; xm;ay;zl wm0etwu
ri;xiu aqmi&uon/

]]&iu vrrm jy|pz| awmawm 0goemygw, | xiw,}} [| r; celon u o | jy|aeEi\ \ /

]]0goemawm b , yggyrv | r; &/ 'g 0goemygv | vyw tvyr | r [wb}}

bmjzpv | vywmv [| r; rar;cyg/

r; pwajyv uay\$mu jzp&e ½y&i talumi;? *wtalumi; ajmzl o bu;pm;on/ r;on
½y&i lunji;? *wem;axmijci;Ei pr;ve;o jzpon/

]]ueawmu ½y&i? A', | u oy0goemygw/ 'gayr, | Zmwum;u a&ly; llunwm}}

r;u jy|;ra, mia, mi ai;pu í em;axmiaecon/

]]orm;awu *slv, m a&mbw(w)(p) el ' , (r)rr;(&u buuawwtcserm ueawmu
a&mi , e;u | buuawecwm}}

]]wpqw au;Z;jyly; t'g bmawv ajm0;rayg}}

]]o½ydaqmi ri;or;awav r;}}

r;ujy|; í acgi;w, r; , r; jzpaen/

]]'gjzi acwa [mi; ½y&iawtalumi; ajmij&rvm; [i? ueawm buuw acwa [mi;
ri;or;Epa, mu &w,? emrnawu r; em;axmirvm;}}

]]um;z;wmaygav}}

o | jy|;vluon/

]]&wm a [;0ye | ti;*&p bm(*)riav}}

r;u jy|;ae½om jzpon/ r; owum;aw llunz;rm r [wyg/

]]'Epyi;awtwi; uleawm tluuq; um;wpum;&w, r;? r; pw0ipm;Ei&i
ajmjr,}}

]]ajmnyg0;}}

]]Zmwvu &pcsm(w)csebmvey? &pcsm(w)csebmveuwam rob;v rajymeAsm}}

]]u'er owmuawm 0e;u;c;y csebmvey &i}}

owEpa, muv; jAe;ce [u[uyuyu &, armvuluon/

]]½y&iemrnu oe;(e) bm(')w}}

]]q;i uaygaem}}

]] [ww,? tajmiajrmuq; tcspum; wpcy r;/ r; tllormy? t' Zmwum;xrm
&pcsm(w)csebmveu be;u;av... ½riuuo vp be;u;}}

xlaemu o llunc&aom Pal O;acW Thorn Bird ½y&i tallumi; wcr;wem;
ajmrvluon/

]]a, musm;wpa, muu re;rwpa, mutay:xm;w tcpru qijciww&m;aw?
u, uiloumawe waewmyg r;&, / trsm;tm;zi ½;ruluwm? pwqE tvu
vuluwmu re;rawyg/ t're;rawtay: oem;u½Pmoupw vitywmxu yrm;wtcg
wpb0v; 'ua&mu&wmu a, musm;awy/ 'gayr, EpO;oabmw cprwE;llw t cg
tEiaw t½;awqwm r&awmygb;}}

]]'gayr, tjrwr; tjypui;wmu re;rawyg/ ten;q; tc ½y&i xrm
tjyptui;q;vu ru*y/ be;u;wpyg; [m wpou v; be;u;y jzpoi w,/ ou
rywom;wmy/ o [m vruvn; rvy&b;/ vr;wpccu taumi;q; a&rom;cb;/
re;ruawm tptq; ajzmirew vr;uom a&om;cw,}}

o r;u rruav; jy;jyvu \ /

]]r;u vn; trs;or;&U vityr? awmi;q r? emllun;r? u, u, u re;wom;r?
t'cpm;cuawu rjri&ub jriae&w be;u;ae&mu llunrayg? o&U
xe;c;yEipr;tm; [m lliemoem;rallumi wpcsuav;y , r;, iom;cw m r;/ t'
wpcPuav;rm lopalw;vs ur;ajrm trs;or;uav; aysm&i&w pwcpm;r [m b0rm
tjriq; twi;twmy/ t'aysm&ir [m o wpavmu v; tqirajyc&w allu up&m
traxmia&; 'P&mtwu taumi;q; uory}}

r;u acgi;rmvygon/

]]t;... 'g [m uorq&i t'uortwu be;u;b0u wpou v; pelvwly; o cwp
re;ru vuxy, vuygv m;/ tcawm &iZmwvu tpe;Epzuu rvwb
qyuicsiwvr&; jzpaew,}}

]] [wlyav? 'g[m vomreaw&wpwy r;&/'trm;'Pu o aowtx o
cpm;om;com;y/ uleawm ajymciwmu vwpa,murm tcspl[m cetm;oy;u,w,?
tx;ojzi o cspjrwE;w re;r&rsu&nwpp[m o wez;xm;c&w o uly'wpcu
wpcP azsmuzuzitx rur½;oyavmuatmi cetm;u,w,}}

]]r[wb;? 'g[m tcspl[wb;/ &ruy}}

]]u;w...}}

o pwwpc;u oyv;uawm r; rau;rey jzpm;on/

]]vqwm xe;clyEipr; &&r, O;ri;xi&/'vawtm;v;rm qEqwm &uwmy/
w&pmeawrmvn; qEqwm &wmy/ vel w&pmeel umjcm;ru wpcy &w,/'t'gu
toÓPei xe;clyry/ qE&ovom vwvypm vyci&&i vaw[m w&pmeaw
jzpueawrmayg/ v;b0& tEpom&uu xe;clyjci;yg/ vxu yly; xe;clyEipr;
&&rmu be;u;y}}

jywom;aom r; pum;allumi o O;wnctu aysmuom;on/

]] [wygw,? t'gallumi vn; o[m aocge;rm olu,oa&m tcspe avmiur;cae&w
vawua&m q;iuwpauimi& b0Zmwor;rs;el yci;Ei; jyom;wmy/ &ruqEr&awmw
tout&, u;&itri; aelluw vEpa,mullum;xu pprew tcspl t'rm jriEiwm
r;&/'uleawm qvwmu 'g[m tcspl&o½yuazm&mr taumi;q;? tcpm;&q; ½y&iwpc?
u,usiw&m; xe;or;ru wez;txm;q; ½y&iwpc? &ruei pn;prcr;om tm;v;u
w&m;"rtwuel peyp&w av;pm;p&maumi;w be;u;wp yg;& twwEiq; clywn;ru
azmjiyuae&mr tyjiq; ½y&iwpcy/ oawmpijzpzl usilluae&mr trm;qwm &rm
r;&/'r; ajmov o[m be;u;b0u pelly; via,mu;sm;wpa,mub0u &iqivui&i...}}

]]via,mu;sm;aumi; wpa,mu jzpm;rmayg}}

]]rxiygei r;&,? viaumi;wpa,mu jzpzlu ty&may:u upwpcwn;r r[wwm/
uiemww½elawmi rly;ygb;/ vavmuabmixu jyóentm;v;u a&uae rm;rm;rwrw
O;aqmiEi&r,/'wpou v; be;u; Owvmcw vwpa,mu[m viaumi;wpa,mu
rjzpEiygb;/ o a&wvr; reygw,/'o[m wpou v; be;u;tjzpy aeoiwvy}}

r;u jAe;ce [u[uyuyu &,c;vuavon/

]]uierw u, vurrwt&mwpcu aq;aE;&i; tcseljze;aelluwmy}}

]] [ww,aem}}

*wu pwr0ipm;vaom r;twu taumi;q; azm;ajzen;rm pmzwjyji;yi jzpon/

olaom r*Zi;rsm;? Owlrsm;u r;u v;0 pwr0ipm;jyeyg/

]]r; b,bmom&yawu pw0ipm;ov [i}}

]]ori;e oy}}

tllp&my/

]]oyxrm pwt0ipm;q;u t P0goy r [wvm;}}

]]aocsmwmayg}}

]]ueawm r; pw0ipm;rvm;v| &or| pmtyaw pxm;wm trsm;|u;y/ aem uwpacgu
uleawm rEav; vmw t c g o , vmcr , aem? t cawm jAle;ce ta&w|u; aiy;vmc&wmr}}

]]q vwm u aem uwpacgu v m O ; r , ayg}}

]] [wu ciAsm}}

r; pwq;rom;yg/ jyl; aeygon/

]]t' pmtyaw twu r; ueawm u aus;Z; rwieaem}}

]]&iu aus;Z;wizl rwizl uier q;jzwr , av/ bmpmt yawv/}}

o pmtyrsm;u rwroavmu &wjyv u \ /

" Oceans, Marine Geology, Chemical Oceanography, The Structure and Reproduction of the Algae, Handbook of Microalgal Mass Culture, Algae Biomass, Production and Use..."

r;u toxuatmi & , arm \ /

]]&i awmawm tlozaumi;wmy}}

]]'gjzi r; ueawm u aus;Z;wiom;lyaygaem}}

]]wiom;ly}}

o aysm&ipm rsuEmarmí & , c v u av on/

]]wpcsecerm a , m u sm;wpa , m u a , m u u v u xyzl pO;pm;w t c g t'
aus;Z;uav;awu rare'aygAsm}}

cyaeu aem u ajmrawm r;u vy½ Ewcr;rau;pm jyl; \ /

]]vmjyely v u xypum;? u... &iu uieru v u xyly;&i uieru b , rm xm;r ,
pwu;ov [i/ q&m&U ac;Epmel 0 , xm;w wuce;ay:rm uieru ac:xm;rmvm;?
'grr [w rEav;u uier&U rvetrmm ac:xm;rmvm;}}

o rsuEm aE;ce yom; \ /

]]ciAsm; a , m u sm;wpa , m u &U t m;en;csu u axmujywae&mrmm awmawm
ajymiajrm u wmyaem r;? ueawm cs;u sl;ygw , Asm/ aumi;ly? ueawm yiw
wuce;uav;wpc r&ao;rcsi; aem u xy ciAsm;u v u xyzl pum;wpce;r rajymawm b;
r;? t'g ueawm&U uw...}}

o rsuEmxm; cywnwnjzi emusipm ajmrawm r;u toxu &,on/

]]t...t...t'avmuvn; u,uu, 'Pray,yge O;ri;xi&/ u,yitr r&be
im;xm;w wuce;wpcay:rmvn; re;rwpa,mu'u vuxyv &ygw,/ ormtmZ0e
t ouar;zi 'avmuu;wyn;w acw'u;rm O;ri;xi trwpv; yiqir vuxy&r,q&i
t're;rawm oem;p&mygy}}

]]ravmie r;}}

o a'goen;en; xuom;wmu r;u rsupuav; ar;pi;vsu tay;p;tlu nEi
rccsrcom jzpatmi llunaeavon/

]]'ge' O;ri;xi? uierqu bmvcsiwmv [i... bmallumi vuxycsiwmv}}

o reuyuy lunypvu \ /

]]ciAsm;uav &i;aewm wpcu ½yatmi wu,vyw, r;/ u'eawm ciAsm;u
vuxycsiwm use&aew b0u ciAsm;etw quav[muzlaygAs? ciAsm;u cspvlayg}}

]] [wlyav? t'gawm uier owmayg/ 'gayr, yw0e;usirm vr;ay:rm vvw
re;uav;aw trsm;u; &aew txu &iu uierur vuxycsiw, qawm uierqu
bmwpcc yx;jcm;vlv b , tcsuu we;t;ay;ae vlv}}

u...ajzpr;um/ tvy0izi tiwmAd;vy tajz&cuw ar;ce;u;aw/

]]u'eawmu rom;pb0 wpcu vcsiwm, r;/ u'eawm om;aw or;aw[m
ÓP&n'xujru&r,? x;ce&r,? wu'u&r,? u,uu, ,lluntm;u&r,? aemuly;
csp&mvn; aumi;&r,/ t' om;aw or;aw& rci[mvn; uav;awu xe;c;syay;zi?
jy/py&axmiay;zi xuwew atmijriw tr∨ jzp&r,/ uav;aw& pwyi;qi&m
½yyi;qi&m vtysuawu jznqn;apnia&mu om;Eiw tr∨ jzp&r,/u,uu, u
,lluntm;u&r,? u,usiuom aumi;re&r,? ai;alu;sr;omz' rvb;/
a,musm;&lpum;u rm;rm;rere om;uoci? viub&m;qw t,tqr&el acgi;ilvucw
re;rr& rvciib;/ rm;&i rm;ov a0zeEi&r,/ a,musm;rm wrjryaew cetm;aw
pr;&naw &&iawmi azmxw ta&miwiay;Ei&r,...}}

r;u jAle;ce [u[uyuyu &,c;vuojzi ajmvup pum;welom; \ /

]]&i vcsiwmawu oyrsm;ve;w,? 'v o&aumi;re;rr&u &i b ,awmr
rawlEib;}}

]]r [wb;? awlEiwmayg? r;rm t' t&n'tcsi;aw &aew,}}

or jy;jy;uav; acgi;cg , r;aeon/

]]u'errm t' t&n'tcsi; r&ygb;? u'errm tluemqwm oyr&b;? ,vm;}}

]]aoaocsmcsm , wmayg r;&m}}

]]&iu b ,rmaere; rowre;re| o&uav;aw a&la&;u pwu; ,Oaew tcierm
uieru uier tvywpcuy opm&aw,? uav;awqwm tvyvyEiw
re;rwpa ,mutwu taEmi t ,u\l xiaew,? aemu;ly; [aelu pum;u quzitalumi;
ay:vmjely/ vawrm a&;cs ,cir&w talumi;av? vaw[m traxmizuul a&; ,v&w,?
rbu om;ci;u a&; ,v\ r&b;? 'gxuq;wmu vaw[m om;or;u a&; ,v\ r&b;&i?
o&vm;}}

o| cPavmu q|tom; \ / olaom o t^{1/2};ray;yg/

]] [wlyav? t' talumi;allumi; uleawmw[m a&;cs ,Eiw traxmizuul
taumi;q; a&;aelluwmy r[wvm;? u ,re;r&u t&ntcsi;? AZ? pw"mw? 'gaw[m
om;or;awqrm ygom;r ,av}}

or wpcu pwoyum acgi; , r;vuon/

]]&iu tuu qi;wvqawm rsl;^{1/2};AZynmtalumi; uieravmu orm r[wyg;?
uieru Z0aA'ynmu &ixu ow,? rsl;^{1/2};ynmtalumi;u &ixu ow,}}

]]uleawmvn; oygw,? rsl;^{1/2};ynmrm *(e)v\ac:w c^{1/2}rqr; tpta0;aw &w,? t'
c^{1/2}rqr;awu rsl;ym;ji;? rsl;wjci; tvyu vyay;w,}}

]]'gayr , | iyAZqwm &i o&vm;}}

o| cPawa0om;jye \ / Recessive Gene [awm o oygon/

]]t' iyAZ[m b ,Epquajrmu rsl;qurm jyeay:www ,qwwaum twtus &i
ovm;? &iao;om;xrm &aew tb;tbm;awqu iyAZaw? uier tao;tom;xrm &aew
uier taz tar&u raumi;w iyAZaw[m uierw om;or;awrm jyeray;b;v\ &i
aocsmv\vm;}}

]]'gjzi uleawmwu bmvv&rmvA? 'twi; xiluna&rvm;? ao;xu
c^{1/2}rqr;awu azmu xwyp&rmvm;}}

o| a'goallumi ten;i , pwvy&m;aeon/ o| bmr qurajymEib &yweae \ /

]]'awm &iu xx;ov upr;&w tvywpcrm uierygOizi jzm;a ,mi;ao;aqmi
aewmu vuav\mv\awmayg}}

u... [aom pum;allumi o vr;pwpc &om;on/

]] [wly? ri; ajymwmuy uleawm ajymjyr ,? uqw pum;av 'ge| r; A'bomygaem}}

]]qygawm}}

]]uleawmw A'bmomrm u u\ tu sl; qwm&w, / u qwmu A'u jy\vyji;?
aqmi&ujci;v\ teuay;cw,? 'awm u\ tu sl; qwmu jy\vyaqmi&ujci;&u
tu sl;cpm;ciy? vwpa ,mu[m o&uapwpapu pu&i o&uyiy aygur,? o&uo;y
o;r,? t'vy uleawmw[m ai&m&i ai&r,? ovu&m&i ov &r,?

aumi;wmuvy&i aumi;wtus;u cpm;&r , ? raumi;wmuvy&i raumi;wtus;u cpm;&r , ? waomtus;uy ay;r ,}}

]]'gayr , | raumi;wmvly; aumi;us;csr;omaw &aelluwma&m}}

]]ae0;av r;u v n; ueawmpum;r rq;ao;wm? t'v u u \ tus;rmr u qwm u xycxm;w , ? r; em;v natmi &i;&i;ajm&iawm u qwm av;rsl;av;pm; &w , ? 'gayr , | tc ueawmw ajmaew acgi;pOel ouqiw uu eygwo;uayg? tus;ay;w umvtvu cjc;xm;w u? t' urmr av;rsl; xycxm;w , ? tcb0rm jyly; tcb0rm tus;ay;wu qwm&w , ? t'gu 'X"r a0'e , uvl ac:w , / t'v r [wb b0jc;r tus;ay;w uaw &ao;w , ? ygVawawm &wryawmb;aem}}

ueawmvn; oyryiEi vlyg/ o en;en;jy;í quajymon/

]]tcb0&U aemu'w , b0ur tus;ay;w u? ww , b0rm tus;ay;w u? t'gawy/ 'awm apmapmu ueawmwajymw om;or;urm t'v ursl;aw ygv&iawm ueawmw&U 'b0;u;l;pm;r tv [ó jzp&r mayg/ 'gawmi ueawm ajm&ygw , ? ig;a , muar;zm;&i t'raumi;w iyAZu wpa , muavmurmy ygrmyg}}

or toxuatmi & , jye \ /

]]bm& , p&m ygvlv r;}}

]]allom... ig;a , muqvlyg/ re;ru b , rmaere; ro? uav;u ig;a , muar;r , qawm}}

o rsuEm aE;ce yvsu &u& , & , viuron/

]]'g Oyrmyg r;&m}}

]]u'erwaemu acgi;p0wpc ajymi;u&i aumi;r , }}

o r; \ lunvi jynwi;vmaom rsuEmuav;u ai;vsu acgi;nwvuon/

]]aumi;lyav? ueawmw bmaq;aE;ur v... r; pwt0ipm;q;u bmv}}

]]py^{1/2}vi;em;}}

xpum;u o v;0 , lunygon/

]]py^{1/2}vi;em;e ywouly; ueawm pw0ipm;wm wpcy &w , / t' py^{1/2}vi;em;xu *vuuvpypqw "mwwpcu attit'u(p) a&m*gy;u wuzsu umu , Eipr; &w , qw tcsuy/ t'g [wovm; [i}}

]] [ww , | qygawmav? u'eru , wi "mwcwmxu pwc&w tar&ue jynaxmipu oawoe oyym&iaw "mwc pr;oyxm;wmy/ 'gayr , | 'g [m u'erw urm;u;twu awmawmtm;wup&my r [wvm;}}

vawtwu atmijripm pr;oy xwazmEiygap [o qawmi;ygon/

]]ti;...tctceq&i pce;rm a&najcmuawu jye¹/₂yaelluavmuly/ wpaewm
py¹/₂vii;em; aAmvsl;(r)awu pm&i;Z,m;aw qly;avmuly/ rrmuawm "mwcce;xrm
wpa,muwn; tvy¹/₂yaewmr/ ytyc;vn; owpa,muwn; wi;&r,?
buw;&;,m;vn; o wpa,muwn; &m&r,}}

]]r;&m? aeraumi;wv [m uewvawtwu brryyp&m rvygb;}}

r;u a'go&yzi olulun\

]]¹/₂i b,E, ajymvuwmv? wpa,muq wpa,mu vytm;q;¹/₂w,&i/ pce;rm
vtm;v; q,¹/₂pa,muy ¹/₂w,? wpa,muu aoom;ly? wpa,muu 'rm
aq;¹/₂wuaew,? [rm uewvaw b,vaelurv yp&m rvb;vm;/ reu av;em&uae
n q,em&tx b,or tveyelvuel rjyw&b;}}

]]'gayr, r; aeaumi;&i r; unEiwmy/ aeraumi;we;awm pwu tem;ay;ly;
aysmp&maw;aw;rayg}}

]]aysmp&maw;&atmi ueru aysm¹/₂irt"u0g'r r [wwm}}

]]¹/₂p(x)}} [pwu xe;clyum a¹/₂wvuon/

]]¹/₂i r¹/₂i;pi;e}}

pwxu qvuao m pum;uom r; llum;&vqi wuaorm aocsm \ / r;
pwwom;wmu owxm;rawm vrrmEilyií pwaumurrv jzpom;aom olu,o
xe;or;jyiyiv u&\ / azaz ajymwawm [wyg&\ / 'gayr, 're;r aysm¹/₂izl uleawm
b,vvy wwEirmvAsm/

]]allom...'ge r; py¹/₂vii;em;el ywouvl a[majmyaw bmawrm;vy&i uleawm r;u
unEiw,aem/ uleawm aumi;aumi; a[majmwww,}}

r; rsuEmreaeq/ o en;en; jyl;vuon/

]]uleawm tca[majmcsi w talumi;t&muawm uleawmw jrrermvrs;awtm;v;
tem*wr m t&yjrirrm;z? O;aEmu yrzUz(;ly; ÓP&n jrizitwu taumi;q;
aq;0g;wpcjzpw y¹/₂Ariaq;jym; talumi;gyg/ oiuv; xm;usi;ÓPaumi;zitwu
y¹/₂Ariaq;u o;aqmiyg/}}

r;u pw¹/₂y[e rsuEmay;ji olu rsuapmi;x;\un\

]]r; aumzaomurv; [i? uleawm azsmvur,}}

r;tajzu rapmib o aumz cyouou azsm \ / xlaem u r;\ aq;A¹/₂av;ay;r
a&najcmuyvi;u zi um a&nacsmi;uav;rm;u vuz0g;xol xnly; en;en;csi;
ajcrvuon/ a&nacsmi; twuav;rm; ur;o;o;v;ce &awmr r;vu xol xnay;í
aumzEi aomuci;vuon/

]]aomu\vu r;? tm[m& cslwaeoawtwu py½vii;em;u tjqre;qjyely;
use;rmvmatmi uoay;vrr,/ ciA;m;[m u,0eaqmiq\½&i y&aew, \v t;m;aq;vy
py½vii;em;u , llunpwc;pm pm;o;Ei ygw, }}

]]O;ri;xi...}}

or en;en;rj rjy;yg/ olaom aq;Eiaumzuawm oci;ontwi; aomu\ /

o cwe;uav;ay:rm jyexiivuo n/

]]'ge' r;? py½vii;em; qwpum; b,uae qi;ouvmov r; o&Uvm;/ t'g
vuwi bome pyi&,vqw t"ym,y? jrermvawm py&ialumi vr ypayg/ urmay:rm
py½vii;em;xuw a'ou en;en;uav; ½w,/ tmz&u u cw(')Eii&,?
ruquEii&,? ueawmw jrermEii&,ayg/ 'gayr, tpa&e xi;Eiirm
ar;jrlly;xwaeluw,/ xi0re*yeEiirm ar;jrla&ue tlu;u;aw wnaqmuxm;w,/ t'
ueawu teuu wpayavmuy½ly; tus,u aywp&mig;q,p ½uw,/ ypu
t0i;u;awav/ t'xrmr ue&U A[uaely; tcsi;0utwi; armi;wlu;aw wyxm;w,/ t'
armi;wwpav[murm ave umAe'iatmuquu tcs;tqtwi; a&mpyxway;ly;
a&p;allumi;yg vyay;w vuwawxyly; wyxm;w,av}}

r;ruEm jy\;vm\ / o rocia, miaqmi í quajymon/

]]t' vuwawu vy½m;ly; armi;wlu; wpcv; pu0i;y vnyway;ji;t;m;ji
ar;jrlxm;w py½vii;em;aw[m a&p;allumi;t vuvn; obm0twi; arsm ygr,/ ave
umAe'iatmuquvn; ow vtoavmu &r, }}

]]½i awmawmwEiw vygv m;/ 'gaw b,we;u oaewmv}}

'guawm r;&, / ueawm vuxyr, re;rwpa, mu&U b0[m ueawm b0ygy/ r;&U
pw0ipm;r [m ueawmpw0ipm;rygy/

o bmr rajzb jy\;í ai;llunaeron/

]]½ie rqi w 'a&nawu ½iz' lu;pm;yr;pm; pw0ipm;aew, }}

]]rqib; [wvm;? oyqi wmayg r;&U/ azazu wpaelaerm py½vii;em;
rw(p)ya&m'w(u)½i; vyzl vyie;twu tcuwn;u uswly; va½xm;w,av/ t'
vpm&i;xrm rcir;jriu xyq;u ygw,/ Or;en;p&m aumi;wmu ueawm ryg b;}}

r;u llunvipm jy\;avon/

]]azazw\vyie;rm pm&i;aw rEirei; jzpa&i ueawm ygrjzprmaygv/
azazu ajymawm azazu bmajymv ov m;? py½vii;em; aumi;aumi;ar;wwwvy
vcsiw,? pm&i;uizlv rvcib;w}}

oru olu acgi;nw í axmuc\ /

]]w u , a w m a t m z p (p) r e a e * s m q w & m x ; [m j r e r m E i i r m v w p o e ; a v m u
v y E i y g w , a v ? ' g a y r , | " m w c c e ; r m p y 1 / 2 v i ; e m ; u a t m i a t m i j r i j r i a r ; x w E i w
v u a w m q , a , m u a w m i 1 / 2 r m r [w y g b ; } }

]] 1 / 2 i u v w p z u o m ; p w c r ; o m a t m i a w m a w m a j m w w w , } }

x p u m ; o n o l u t v e a y s m 1 / 2 i o m ; a p a l u m i ; r ; o E i r n r x i y g / o \ t " u
& n r e ; c u r m r ; p w c r ; o m z l o m j z p a l u m i ; r ; o E i r n r x i y g /

]] t ' g y g y a v ... ? a z a z u u i e a w m u t v y c e z u i e a w m a & n a w u t p r ; u e
p w 0 i p m ; j y a e & w m r ; & U } }

r ; u r , o v y i r s u a p m i ; c i f j y ; p p l u n a v o n /

]] x m ; y g a w m a v ? ' g e l 1 / 2 i & e u e u j y e z b , a w m p w u ; r m v } }

o l o r r s u E m u p ; p u l u n v u \ /

]] j y e z p w u ; w m u a w m r ; o w & v m l y ; a e m u a e u w n ; u y ? ' g a y r , |
b m ; b m ; w p a , m u w n ; q a w m } }

o r \ r s u E m r m t v y u p a q ; a E ; a e o w p 0 ; \ r s u E m j z p o m ; \ /

]] j z p r j z p & a v 0 ; r i ; x i & , ? u l e r a e a u m i ; l y y / a e m u l y ; 0 ; r i ; x i t v y u p a w
a w m a w m y s u a e a & m a y g / u l e r v n ; t c a w m a w m v r ; a v { m u E i l y a v } }

o l r s l o y r x m ; E i a w m y g /

]] u i e a w m u j y e a p c s i o v m ; [i } }

o r E w c r ; r s m ; w i ; a p o m ; \ / x l a e m u j y l ; o n /

]] 1 / 2 i u b , o l q E e t v y v y c i a e v l v } }

]] r ; & U q E e l ... } }

]] a u m i ; l y ? u l e r 1 / 2 i u j y e a p c s i w , } }

o l u j y e a p c s i a o m o r \ r s u 0 e ; r s m ; E ; n l v s u & o n /

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tce; (15)

rEav;o aemuwpur rom;r &eueü tvyvy&aom cEp&uon oltwu
wpEppm tvyrs; [xi&avmuatmi rsm;jym;ae \ /

naewi; ½;r aemuq;xucm&orm o jzpon/

azazwu a½jynom½ site xo aep0om;ae&aomallumi oEi oyrseuEmcsi;
rqiyg/ xlaumi rsuEmyji; en;en;awm ouomygon/ 'gawmi p'gvu olu
tvyaw uvyay;&i; rlumcP pypon'Pu cae&ao; \ /

]]q&m rEav;rm wpa , mua , mu aeraumi; jzpaewmq}}

wpa , mua , mu.../ owi; twtus rajymbxm;on owi;ay;ou aus;Z;wi&rv
jzpa \ /

]]ayguwwu& 'gv&m/ a&m...'v , *smawu jye , om;awm? u , vpmw;w
&mciEe;aw wu&0;r , }}

rEav;u wpa , mua , muEi ywouí p'gv \ pw0ipm;rrm tlop&m aumi; \ /

]]q&m...'gv zeyuav; v&v; [i }}

o yg;pyta [mi;om; armunr \ / 'gvu cspz , jy;& , vsu½on/ xlaemu or \
ajcaxmuu illuna \ / o trwrxi vuí illunvuon/

[wyg& \ / zeyuav;u awmawmvygon/ t nla&mi om;a&aysmaymuav;jzi
ajczr;ay:rm tuuazmxm;aom 0;ciezeyuav;/ cjricie zeyuav; jzpon/

]]t'g bmjzpv 'gv}}

]]allom...'gvqrm t'grs; ½ao;w , q&m? *smreuiyevmw towpa , muqu 0 , xm;
vuwmav/ q&m wp&eavmu 0 , ly; vuaqmiay;vuuygv;? 'gv tjrwr , ygb;}}

o en;en; rsuarmi uwusom; \ /

]]b , olu vuaqmiay;&rmv}}

]]rEav;u wpa , mua , muuav}}

o rjy;r&, acgi;,r;vu&aomvn; rsuEmawm yom;\ / r;u 'avmu t&y
uueuv;m;e cmjrizeyr rp;wm[o ajmviuccion/ olaom u, xu i, ½, o
uav;ru u, u rq;Eiatmi p aemuaermu o rcEiyg/

]]q&m... ou vvm; [i}}

b&m;a&/ 'ar;ce;awu q;y rq;Eiawmb;vm;/

]]'gv? 'pm&i; topawu vuEypu ½u vuyg0;? aumyav;c ym;&r , aem}}

'gvu rsuEmuav; ½u í &, armavon/ or\ pm;y½&m o xuom;awmrn[e
jyily;r]]alom q&m? 'gv aumjye0, ci;xm;w, ? pm;rm r[wvm;}} [ar;on/

]]pm;rm? aumzvn; azsmvu? cg;cg;uav;? u, t&r; tyiuaew, }}

'gv azmay;aom oy&me ar;aeon aumzlu;r;u aomu&i; r;u ow&ae\ / r;&u
rEav;trrm r;u aumzaumi;aumi; azmay;r, v b, o ½ygrv/ oltaw; ojeí
&, ciom;\ / r;u uav;r r[wb/ tppt&m&m em;vnaom? vu;vn; qeaom?
u, u, uvn; tm;u;aom re;rwpa, mu jzpygon/

or\ u, u, uomv\icply; u, uu, omv\i , llunwwaom pw"mwon
ri;xitwu oru b, vr ar\mvií r&atmi q;½;rwpy jzpay:apvsu &on/
olaom pq;½;ron tjcm;wpyg;aom a, m usm;wp0;Ei , Olylily; ½;er&jci;rst; xu
pwouom&m &apygon/

azazm0g& 1 &uae? paeae eeu 9em&tciewi r;\ troi o a&muom;on/
xxnu;rm;ly; cnm;aom twewuBu;on a[mi;Er;ly; rmausmaom EajE&on/ wu\
twi;wi acwEpacwu wplyiwn; awlae&\ /

atmuxyon bm;bm;a':aitr\ ae&mXnejzp&m 'w, urmpp rwiru to;taqmi
traxmiy&abm*rsm;jzi qí, ixm;\ / uie;pm;yíu;on e* uie;a&mitwi; nlarimi
ajmivuae\ / burci; uvm;xírm;uawm aemuraumaumEi opom;ye;yxi;vu&mrsm;
jzpon/ quwc r½yg/ x uie;pm;yonyiv\i tvypm;y? xri;pm; pm;y? {ncpm;y
jzpon/ opwu tqaqmiEiq;rm b&m;ce;jzp\ / b&m;ce;on acgi;&i;wi 12ay
ywnavmu us, 0e;on/ uie;pm;y½nBu;ay:wi Bu;rm;cxnaom b&m;aumsi;aqmiBu;
rm a½c;xm;aom a½;acwuEwvu&mrsm;jzi vyvu½on/ b&m;aumsi;aqmiBu;xwawm
½yym;awmajrmujrm;pm apwtao;pm;uav;rm;u u;u, xm;on/ aumsi;aqmi\ tjyibu
pm;yrsuEmjiay:wi tar;wixe;aom aiuvy? za, mi;wixe;aom aiuvyrsm; ½on/
allu;owlusnqec ye;t;Bu;rm;wawm lluuao;a&mi opmye;rm;jzi a0qmve;qe;vsu
&on/ b&m;aumsi;aqmiwi pm;ya&ll uuvywi a½;acwaumaZmBu; wpcci;xm;\ /
tbm;ty&m cwiereray:wawm oijzl;zm tacsm;pm;wpcy ½on/ cwiab;wi ½aom
uie;om;aowmBu;rm tvex;qe;\ / uie;om;u xi;í ½yyrsm; uEwrsm; azmxm;aom
a½;a[mi;aowmBu; jzpon/ ab;rsuEmji av;bu v;Ei tay:wi xi;xm;aom
½yyrsm;on v? aus;iu? opyi? awmawmia&ajr pvivon/ reA½x½ a uxnypn;
rsm;u v n; a½;acww½wjynEi *yejynrvmaom a uxnvu&m ypn;rm;jzpon/

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ajm&rn) r;\ lur;jyion ararllur;jyiv ajmivuaawmuyjci; r½yg/ zer½½uav;om

oe%2i; \ / a&jrlyqzmrsm; \ om;a&wta&mirm tpr;yya&mi jzp \ / quwpm; yrm
rer:uEmjijzpon / r; \ ae&ma'owi ye;pu t; r%2aomallumi o o ,aqmi\ vmaom
Ei;qye;rsm;u pm;yay:rmom wixm;v u&avon / r; \ tay:xywi b&m;ce;vn;r%2
b&m;q;wawmvn; r%2/ cr;em;u;u s,aom t&mrm pmtYA%2 tjri;u; jzpon/
pmtYA%2xwi %2aeaom pmtyrsm;rm trs;rpvivyg/ jrerm0w\ r%2? Eiijc;0w\ r%2/
ori;q i&m pmtyrsm;Ei t P0gZ0aA' qi&mpmtyrsm;uawm awmiawmrsm;jym;on/ ori;Ei
ywouor\ jrermbmom? t*vbybmom Eprsl;v; pvi \ / a'guwmo;xe; \ acwa[mi;
jrerm&mZ0i? topjri Armor;rtp 0;uvm; \ &mZ0i? reee; &mZ0itx %2 \ /
jrermri;rsm; tyclyy pmwr;u jriawm o yc; we\ vuron/ yxrurmp? 'w , urmp
[aom t*vbybmompmtyrsm;u jriawm o rsuarmilluivvurjeon/ jyiop
awmvea&/ b&m;a&... 're;r 'pmawu bmallumi pw0ipm;ae&ygv r/ o tve
yi;&i;ai\ aom bmom&ypmtyrsm;u awl&ao;on/ rE ó aA'qi&m pmtyrsm; jzpon/
a%2w*e ,ajrr vom;rsm;? ta%2lawmit m%2a'o rsl;E ,prsm;? awmirsm;r a%2\ajymi;vmluor sm;/
o a%2\qurlunawmb ouji; %2uvu \ / pmtYA%2atm uajcwiawm tpuv
yxm;On... National Geographics r*Zi;rsm;u awl&ao; \ /

r;Eio wpae v; A'bmom tallumi; t\ uwte, \ aq;aE;lu&i; rb... [aom
acgi;p0o\ a&muom;on/

]]r; rbaw tallumi; u\ eawm rar;r z\ tjrowxm;cygw , / 'gayr , \ u\ eawm r;&\
emlun;r u nly; em;vnay;csi w , }}

'&i;buay:wi tomt , m jyevavsmi;&i; rsuEmlluu r;ye;q i;u armai;aeaom
r;rsuEmwi wnllirat;purom %2ly; emlun;r raw\&yg/

]]r;&\ rbawu b , v rbrsl;awv [i...}}

r;u jy; \ / vuvr r%2aom rxwx tjy; jzpon/

]]tazu re;r wpa , muu pn;prcr;om ruly; v u xycw ouw;orm;ayg}}

o prce ausmcr;om; \ / r; \ a%2\wi xiae&wm pwrourom jzpvmon/
uleawm r;xu pn;prcr;om yrsm;csi v uwm/

]]taru bm;bm;&\ wp0;wn;aom or;av? acwynmww/ &w a , musm;u
olavmu vn; ynm tqir%2/ puclyq&mwpa , mu&\ om;/ tarw \ uue;%2rm
cnpywv/ owEpa , mu &n;pm;jzpw t cerm bm;bm;u t&r;ue\ u ucwmayg/ 'gayr ,
tcspu u;u , w taru tazu , llunw , ...w}}

or \ avou oa&mawmawm yp jzpv m \ /

]]aemuq;awm uiertpru u , 0e&om;ly; ay;pm;v u &a&m qygawmav/ t' uwn;u
taz&\ pw"mw? u , usiw&m;u 0;ri;xi tucwv \ &ygly}}

o r; roatmi ouji; wwwwuav; c v u & \ /

]]bm;bm; v u xyay;ly;waemuawm taz [m bm;bm;&\ pn;prcr;omay:rm tlirom;
xily; cpm;o;jzle;awmwmayg/ wpou v; tvyrvyw a , musm;u jyygq&i tazu
jyv&w , ? taz [m t&uaomuly; tarpn;praw o;jzle;&i; u\ eru ar;vmcw , /

uq;ciawm taz&u½y&n tartEpu uier &cw,/ taz uvm;ao; en;en;uav;
pyw,w/ awmygao;&u? tazpw"mwrsl; uier &rvmcwm...}}

]]aemuq;awm taz[m ouw;ly; o w;wouxrm aysm½ir ½m&wm tm;r&v
traxmia&; azmujyely; aysm½ir ,cw,/ o azmujew re;ruawm trazmtrsl;or;y/
t'ttcerm rru tysjzpaely/ uieruawm q,Epor;avmuaygav/ tarru&nuvn;
uier jriz;w,/ taz&u azmujyeruivn; rsupewyty aocsmu jri&z;ygw,}}

o b&m; wvur\ / o oru wnwn rlun&b pw;viye;xrm at;puaeaom
aumzye;uersm;u ai;lunaeron/

]]wu,q&i or;aw&u rsuEmu axmuly; wjcm; om;azmujelluz aumi;ygw,/ 'gayr,
'tazu rxe;or;b;/ uieru tbm;u om;wiawm tbm;u taru um½i;z
wuwe;w,/ 'gayr, taru rumEib;wav}}

or rsuEmr tjy;rm txiao;on tjy;jzpon/ o vez;yum ure;uwe;
ajz½i;vlur\ /

]]t'gu r;wu iaewm jzprmayg r;&,/ or;aw&u vjclruiw? or;aw&u
pwyi;qim xcuru iwmjzprmyg/ ' 'uu o b,avmu luwrw...}}

]]awmpr;yg O;ri;xi&,? b,or;&u b,xcurur tar riygb;/ tar[m
or;awu o tvyurmp;v Elawmirwucw ar;orciyg/ taz uumray;Eiwmu
tazu o wpen;en;e vityaeao;vyg/ tar[m or;awu ynma&; pw0ipm;atmi
rq;rwwb;? rxe;cywwb;/ a,mu sm;awu *½puzl rq;rwwb;/ uierw
aumi;pm ty ue&ivn; tbm;y? rez;ue&ivn; tbm;y? tuspw&i puwaw *g0eaw
pwjy&i tbm;y/ re;uav;aw xe;or;tyw £ajEqwmawu tbm;uom uierwu
oilum;ay;cw,/ tartvyu wpaue tvjyir,/ tazel pum;rsm;&i ir,/ yi;&i
z½ur,}}

o orrsuEmu zwce jyellun'vuiye\ / or\ yg;rlrsm; a'goalumi ao;a&mi
vr;aeonrtr rsuEmjyion wnllirvon/

]]aemuawm bm;bm;bu;l;pm;ralumi tazel trazmtrsl;or;u &yuuvlu;awa½lrm
rom;a&m...w}}

or rsuEmu jy;aeon/

]]bm;bm;u oyawmw,/ oyxujruw,/ jzpcsiwm wpcu jzpatmi vyw,/ tazel tare
uom;w,/ bm;bm;&u ar;ce;u oyaumi;w, ov m;/ taru vr;Epcrm
wpc½ci;w,av/ nn; igqu tarypn;awu ,rv m;? nn;a,mu sm;el urvm;/
ig tarawu nn;vci&i nn;a,mu sm;el uly;wtcg igraociu pmslye tm;v;ay;r,/ tivr
r[wv/ nn; trazmrel wpviwn; r,m; vyciaaeo;&iawm ig tarawu
wpcr r&b;rw/ igaowtcgusr nn;or;Epa,muel w&m;qily; &atmi, ayawm...w}}

ye;Ea&mi0wp yyuav;jzi t&y½n½n t½yuav;wp½yv c;prwE;z,aumi;aom
r;\ rsuEmwi emlu n;&yuav; cw ,vmjye\ /

]]taru tazu ra½b tarawu a½vuw, O;ri;xi/ aemuly; uier
½pwe;ajzr, Eprmy tar aemu xytraxmiyjyew, / tar& aemutraxmiu rrxu
ig;Epy ßu;w, }}

o rsuEymom;um r;u rbtalumi; ar;rw m tm;emom; \ /

]]t'aeuply; bm;bm;u uiererru olqac:xm;w, / uier tazuw m t&uallumi
vecw o;Epu q;om;w, v llum;w, / tare aemutraxmiu ig;Epy aygi;&w, /
tar q;om;w, / bmalumi q;om;ovovm; O;ri;xi}}

o jzn;av;pm acgi; , r;jyvuygon /

]]tyaq;aomuly; aoom;wm}}

b&m;... b&m;/

]]uierel tarw tazu armiwpa, mu ar;xm;cw, av/ tara, mu sm;el tarom;el
bm;bm;ay;w tartrrm tcx aaeluwe; ½ao;w, / aalom... arv? tr0i;tus, ßu;u
tarq;ly;wtcg wpicr;a&mi;yp vuow/ a, mu sm;wpa, mu tpr;aqmiEiq; tvy[m
re;rxm;cw taru a&mi;pm;w tvyy}}

r;u o b, v ajzoray;&rnen;/

]]taz& ½ye qiwae v bm;bm;u [we;u uieru oyrcpb;? oyvn;
ta&ray;b;/ rruy cspw, / rru arar½y&n? arartom;ta&twi;y? oyvw, /
'gayr, uq;wm u arar½y&ntji pw"mwyg tar&wmy/ rru t&r;aysmnw, /
bmur O;raqmiEib;/ aemuly; olb0rm o wez;txm;q;u v n; oltyv/ O;ri;xi
tllormyaem}}

o ryiwyi jyl;ae v u&ygon /

]]a, mu sm;awu rru tcsuEpcsuallumi ßu;uw, / eygwwp...½yo yvv?
eygwEp...aialu; tvecr;omw t bm;&ljr;jzpv/ rru v n; v mßu uorq
a, mu sm;awtm;v;avm ue;e; jyeßu uypwmy}}

o rjy;Eiawmyg/

]]bm;bm;u rru b,vr rEib;/ wpcgwpcgq tray:uae Eicwm/ 'gayr,
rruawm cyajymiajymiy/ rqi;b;/ ru&ncx;ly; bm;bm;u acsmvu? pwaumuvue
aewmy/ bm;bm;u v n; olor;el oywwajr;u u½Pm yy &ygw, / t'gawujriawm
uier[m ul,u, u xe;re;ro xe;wwvmcw, / t&ntci; &atmi ßu;pm;ww
vmcw, }}

]]tcawm bm;bm;u r;u oyrcpygw, }}

]] [ww, ? rrtraxmiusly;uwn;u bm;bm;u oltcspawu uierq yvuw, /
rr b, va, mu sm;rsl;el &ov pw0ipm;vm; O;ri;xi}}

o rajzyg/ ajzzl vityaom ar;ce;v n; r [wyg/

]]r&ciawm rrtrsl;om;u rrtay: aumi;aumi;luicmsia,mi aqmiEicw,/ pn;prc;r;om ruwmr[wb rruom cspjrwE;wmw/ uieruawm tpuwn;u r,ygb;/ a,mu&sm;wpa,mu&u rsu;v;rm wPmaw avmbaw tm;v;jriEiwmy/ rru uier twewe ajymcw,/ rr[m ½yvve;v wpallumi;? cr;omvwpallumi; tcpppu rawlEib;av}}

o pwusO;uyum bmr rajymEiavmuatmi iiom;\ / r;\ pum;v;rm;u olu &aeov cpm;&on/ olaom r;on trewu, cpm;&aom talumi;rm;u ajymjyaejci;om jzpygon/

]]'gayr, rru uieru tu;tus, pwq;cw,/ rr pum;wpce;u tcx uier rarb;/ igwl tcspupxrm ei bmr0ipup&m rvb; rr;w? igcspou igy aygi;&rm? raumi;vn; igy 'ucpm;&rm? ei cpm;&rm r[wb;? ig olu ,rvl rm;w,q&i ig rm;w'Pu igcr,? eielv;0 rqib;w}}

or ten;i, weqwl[eizi olu wpcsuvr;un\ / o acgi;nwvluon/

]]t'g rewwy r;}}

]][iti;? rreygb;? u, tpr a,mu&sm;&u q;0g;r? ,wnr[m c,rqu wu½u vmxcuygw,/ bmallumiv ovrm;? t'ctu uier tpr r&we;rm uieru xuyg; &uyg; vmvyvly}}

olrsuEm y&e;om;\ /

]]uier taetxi rwwv rxivuyge? uieru a,mu&sm;awu i,i,uwn;u ½ly; re;vmcwm? uierbuu rm;,i;r v;0rygb;/ ou uieru ao;w;pr;wmav/ &&i Epa,muv; vciw t"yg,ayg}}

rmausmaom rsu0e;Ei vuzupmyi rsuEmu wi;ae\ /

]]ola,mu&sm;&u aumi;usl;q;usl;u uieru wu½uxcuvmwtalumi; rru ziajymjy viuwl / t'awm rr bmajymv ovrm;}}

or emlun;pm toxuí &,armvluavon/

]]'g[m rqe;ygb;w? a,mu&sm;aw&u yreowaA' wjyeryg... w}}

o rcjy; jyl;um acgi;uom cg,r;vur\ /

]]a,mu&sm;t;v;[m 'vyvm;? 'gjzi ow&u toÓPaw aysmuq;uelyvm;? owrm w&pmeawv owaA' wjyerey t&m&mu jylraqmi½uaelluovm;...}}

]]r;...}}

r;\ Ewcr;yg;uav;u rxwx jyl;vsu½on/ r;\ emlun;cursm; rm;,i;alumi; o b,v ajz½i;Eiygrv/]]r; yw0e;usi u a,mu&sm;aw raumi;wi; a,mu&sm;t;v;u tjyprjrygeaem/ aemuly; clywn;rqwm tajymv,oavmu vy&wm oycuygw,/

wcuu v n; cyw n; o i r e; r o v l r cyw n; b; ? w cu u cyw n; o i r e; o v u e
v u e n z l c u c v l r cyw n; b; / b m y z p j z p t r a x m i a & a z m u j y e r q w m r $\frac{1}{2}$ o i w u p y ?
o w l x e; o r; o i w m y / ' g a y r , l r; p w a j z w w a t m i a j m & i a w m t r a x m i a &
a z m u j y e r a w [m t r a x m i a & ; o c r j y n 0 r q w m a w a l u m i v n; j z p w w y g w , }

]] t; ... }

o p u m; u r; u y g; e y p m? e m; v n p m y i r s u E m r j y \ /

]] t ' u p u a , m u s m; w p a , m u l a z m u j y e z l t w u l t a u m i; q; t a l u m i; j y c u r
r [w w m / t ' t a l u m i; j y c u u r e; r u a y; & r , l t a l u m i; j y c u l 0; r i; x i & l }

]] r [w a o; b; ? r; > c i; c s u a w a w m $\frac{1}{2}$ 0; r , }

o b , v v y l y; a j y m j y & y g r v / o r s u E m e e j z i a c g i; , r; $\frac{1}{2}$ o m w w E i \ / p u p o n
o w l a q; a E; o i a o m u p x u a b m i a u s m; l y / o p u m; y u n i n i o m o m u a v;
t q; o w v u \ /

]] u l e a w m w l a u m z a w v n; a t; p u a e l y r; ? u l e a w m j y e a E; a y; & r v m; [i }

o r p w y g v u y g j y l; \ /

]] a e y g a p / b , E , l { n o n u a u m z a z s m & a E; & e }

x l a e m u l a t; p u a o m a u m z r s m; u y i o w E p a , m u l r s u E m c s i; q i l a o m u l u \ /

c P l u m a w m r; u p m t y w p t y u l a u m u u i o n / { n o n u a b; r m x m; l y;
p m z w 0; r n l [e a y; \ / o e n; e n; j y l; v i u o n /

]] r; q & m 0 e t e m; , c i; w m u t j y n t 0 t e m; , c i; w m a e m? r s u v; a w u y g t e m; , & r m }

o r r s u a r m i e n; e n; w e l l o m; \ / o l u r e; u w e; p u m; q u v u & o n /

]] q v w m u r; p m z w c s i & i u l e a w m z w a y; y g r , ? r; u e m; a x m i y g }

r; r s u E m w i l o a & m a w m a w m t j y l; u a v; w p c & y c e j r i v u & l y; c s u c s i; j y e a s m u o m; \ /
x l a e m u l p m t y u l o l t m; v r; a y; o n /

]] u ... ' g j z i v n; z w j y p r; y g 0; / b m o m y g w p c g w n; j y e a y; a e m }

' g i g u l c i w w p u m; y / o l u , p u m; E i o j y e r l y; r; z i x m; a o m p m r s u E m u l z w j y z l
l u l; p m; \ /

]] p y $\frac{1}{2}$ v i; e m; t r s m; q; x w , & $\frac{1}{2}$ & e t w u q v l i p y $\frac{1}{2}$ v i; e m; t a j r m u t j r m;
a r; j r l x w v y j c i; v y i e; t w u l t " u Z 0 q i & m u e l o w r r s m; u l e m; v n x m; & r n ... }

o r t o x u a t m i & , a v o n /

]] 0; r i; x i b m o m j y e X m e r m t v y v y z l a u m i; w , }

o rsuEm 1/2e;ceaE;um 1/2uom; \ / x'allumi aemuxy pmy'rsm;u zw&i;
twwEiq; ajjypatmi bmonjyezi buL;pm;on/

]]t"utcursm;u atmuygtwi; aq;aE;Eion/ r; yxrq; acgi;p0uav;awu
t&izwom;r,aem/ eygwwp... jjiyar;jrljci; vyie;wi jzn;jzn;rere xw,&e
xe;or;xm;onltcu? eygwEp... tvi;wyirul xe;cyljci;? eygwo;... tarmiwi;
tou1/2lr eruajci;...}}

r;u [u[uyuyu &,armí olxr pmtyu q,&e buL;pm;\ / o pmtyu
ab;o vz,xm;&i; cywnwn rsuEmxm;jzi quzwaevuavon/

]]atmuq*siwi;tm; avsmen;jci;? eygwig;... aeci;tcsewi tycse wuvuuvu
jzpjic;? r;... [ww,aem? 'iitme,vqwm aeci;tcseu ajymwmaem}}

]] [wygw,? u... 'gjzi 1/2i zw1/2om zwjyawm? bmonjyeray;eawm/ 1/2i
bmonjyevu&i uier em;vnwmuav;awmi aysmuaysmuom;w,}}

r;\ cs;usL;pum;u o rjzyg/ olaom t*vymbomtwi;yi zwjyvlu \ / o
ruir;usiaom Z0aA'Eil "mwaA' to;tEe;rsm;allumi o aE;au;pm zw&on/

]]r;...trsm;pao m t,va*;awrm oyrrsm;ve;w tvi;a&mie tlumbu; xawlae&&i
t... zwatmZa' wp(A)'u(o)u jrermv b ,v jyerv [i...}}

r;u pmtyu q,um rsuapmi;x;\ /

]]tvi;jzi "mwaygi;pyí aoallujci;ayg/ ay;pr;yg uierpmtyu/ 1/2i [m1/2i
ue;*Pe;aw? tjrwaiaw? &mciEe;awy aw;aeyg 0;ri;xi? uier vyie;u wpqw
raEmil, uyge}}

oravmu u ,uu , txiu;aom re;r o rawdz;yg/

t ce; (16)

azazm0g& wpvv;v; r; ci, xm;re; oaeaomallumi azazm0g& 15&u? paeae
eeuyi;wi rEav;ol o aemuwpacgu a&muom;jye \ /

o Ei;qye; wpaylwpuyjzi a&muom;awm r;trrm r; r^{1/2}yg/

]]awmi||ruu om;w, | vav;&u? llumO;rm/ 'rm xiapmici apmi? vuom;csi om;}}

t bm;u ri;xiu ciriluiemp ciay;awm o t&r;aym^{1/2}iom; \ /

]] [wu? uleawm vuom;r, | bm;bm;}}

em&u illunawm ae\ v, | 2em&/ r;rm um;ygom;on/ oon t bm; nejyaom
vr;neajryjzi trw(8) bwpu;m;p;ly; tr&y&r||o a&muom; \ /

azazm0g&vv, | aeci;on rEav;wi aE&mopppp jzpon/ tr&y&on
rEav;r||xuyí zexxy \ / olaom opyi t&yysm; \ /

r;w\ &uue;pu^{1/2}on tawmtwe us, 0e;aom 0e;wpcxrm ^{1/2}on/ twwwi;
cyjrijri um&xm;ly; *w0wi vwpa, mu ^{1/2}ae \ / o rsuc;yirvsuom; jzpon;on/
xy*lvu olu rq;Eiatmi arjre;aeawmon/ trn? ae&yvypm? rrawlvio?
talumi;up? o wwwwuav; qa&;vuum rcir;jriemrnu ajmjjvuon/ olaom
xy*lvu olemrn? ae&yEi tvytuiwu pm&i;pmtyxwi a&;rwvuao; \ /

twi;ol 0ivuaomtcg oyr;jzi y0taqmuttlo;c? twwu jym;jym;uav; wpc
awl&on/ taygu0r y*lvu twwuav;qol vun;nejy \ / o cyouou
av\muom;on/

tpn;ta0;wpc jy\vyaejci; jzpon/

r;on pm;yxywi taygu0u rsuEmcsi;qivsu xiae \ / r; \ rsuEmxm;rm oEi
awl|pwe;uvyi wn|ir £ajE&ae \ / v 10a, muce^{1/2}rn/ tr&;or;u r;Eiaygi;ygr
Epa, muwn;/ owl aq;aE;ru raEmi, uciaomvn; r;u olu jriom; \ /
r;rsuEmwi 0r;omr rawl&ontji pw^{1/2}yrul awlvu&on[xion/ o en;en;
a'gyom;um taygu0r csucsi; vnxxuvu \ / wu\ t&yuson ab;buwi
wutwe&atmuajc txpuav;ay:rm xicsvuon/ vuvmcraom u, u, uom
a'gyoiygon/ tjibur ty^{1/2}etm;v; o&iwi;ol pijl 0ia&muvm \ / tem;rm ^{1/2}aom

au sm up&pc wpv;u aumu,ly; wpbu twwwi;qo t^{1/2}ejyi;pm ayguypvur
on/

]]O;ri;xi...}}

o zwce vnllunlvu\ / olla^{1/2}lwi vyaom? cr;em;aom re;rwpa,mu
rwww&yvsu^{1/2}on/ ypusu, Eitu clyxm;aom tom;a&mi azsmazsmwazm uZm
0wpjzi oron ojriaeus yprsm;r cxuvu^{1/2}on/ vnwirm evm;u;wpu;u
qxm;\ / ruv;rsm;u apmamu oxixm;ov r[w b E;norarU ael uon/

]]tx 0ixiav? 'em;rmxiiv b,jzprv}}}

o av;yipm rwww&yvu\ / xaemu oraemu vluom;ron/

tce;us,x^{1/2} pm;yvwwpcwi o 0ixion/ oru olu wpcsu jyl;jyum
apmamu ae&m ol jyeom;avon/

orw\ tpn;ta0;rm 2em&e;yg; llum\ / wpa,muly;wpa,mu xaq;aE;luaom
acgi;pOrsm;rm tvyctvlu w;jriaom vpmEe;xm;? tyqalu;? wpEptwu
ueypn;xwvyr yrmP? puprsm;Ei o &i;E;ly;om; jzpaomvn; v;0 pwr0ipm;yg/
r;r;uEmwnwn ai;aezvn; b,vr raumi;wwaomallumi taygu0buolom
vnxi&i; vi,wpa,mu vmcsaom cslqraom vuzu&nu en;en;ci;i í
aomuaevuon/

b&m;ollum;rí nae 4em&cwi tpn;ta0; ly;om;on/

]]uieru vuer vmr, xiaewm}}

]]pae we*aE^{1/2}yw&urm &euerm ysi;wmey}}

or &y&yuav; jyl;aeon/

]]allom...'rm r;twu ar;aelvuaqmi}}

]] [i...uier ar;aelujzi v uecge;r Opm}}

]]u lay;ci r^{1/2}b;vm; [i}}

or tjyl;aysmuom;um olu tucwov llun\ / ly;r yiouwpcsu^{1/2}uum o
vr;ay;aom txyu, on/ a upultjzljzi vypm xyy;ly; a^{1/2}a&mizyiuav;
x;xm;aom ar;aelvuaqmiu or q llun\ /

]]'g pmt yaw}}

]] [ww, ? r;twu tvtyq; pmt yaw}}

olla^{1/2}lrm yi or pw0iwpm; ziazmu llun\ / py^{1/2}vii;em;Ei ywouaom
pmt yvn;r [w? ori;qi&m pmt yvn;r [w? A'b mom pmt yvn; r [w/

cujy\wji; \ tEynm[aom t*vybmompmt y wptyEi 0;u;y\ cujy\wen;
500pm ty jzpygon/

xpmtyrsm;u llunum r;u toxuatmi &,arm\ / r; &,armonitcg o
tveaysmom;yg on/

r;u o\ u o wpcgr\ ra&muz;aom emrn\ u;von 0;yeww; o\ vuyon/ r;w
&uue;pu^{1/2}Ei e;e;uav;rm ^{1/2}on/ r; \ vi;'^{1/2}Asm um;uav;on
ueaygi vr;c\;wpcwi &yom; \ /

jri&or\ ^{1/2}ci;rm us ,jyelvon/ a&rsm;ce;ajcmu í orsm;? puci; ao;ao;uav;rm;
jzpaeaom awmioreti;jyirm om ,mae\ / avon ur;y; qo\ vwqwp
wucwvmon/ a[mi;Er;aomvn; cicaom opv;rsm;? opom;ci;rsm;jzi
u;r;rm;^{1/2}n\ vsm;aom wwm;u;on ti; \ tv ,qwi a&\ t^{1/2}eu x;cEi&e wpqpc\;rsm;
jzpa \ /

]]oabmu:s&\vm; 0;ri;xi}}

]]vygw , ? uleawmw\ wwm;ay: vr;av\mu&i aumi;rvm;}}

or we\qwom;on/

]]0;ri;xi av\mu\unav? uer um;ay:rm pwu;e\ [i;c\ulun\vu0;r , }}

oEitw vr;av\mu&e niniomomuav; jii;qvujci; jzpon/ o raurey
jzpm; \ /

]]avaumi;avoe\ ^{1/2}L&wmayg r;&\? uleawm oyta0;u; rav\mu ygb;?
wwm; tv , avmuwiyg}}

]]avaumi;avoe\ ur;pytx vmygw , }}

or acgi;rmpm wi;cae\ / '^{1/2}ibmae&mr en;en;r\ cmrnyray:/

]]bm v uleawme\ vr;wvav\muuci b;vm; r;}}

o\avo cyqwqw jzprom;atmi b , \vr rxe;c\yEiyg/

]]tretwi; ajym&&iawm [ww , 0;ri;xi}}

o rcjy\; jy\;vu&on/

]]r; wpa , muwn; ae&ygw , aem}}

]]t... ae&wmayg/ at;at;aq;aq; av\mu yyg}}

aumi;y/ o at;at;aq;aq; vr;av\mu^{1/2}wi rub Z&ywpcwi
taemubuolvní xiaevu\ / qyiur suEmu vmi w;a0\laomavrm aeci;u
avvraE;b at;jraeon/ &euewi ae0iceu jri&caomalumi r;uypu0i;wiwp0u

iy0ivsu¹/₂aom aev;e;u;u wtwlo ai;armaeron/ typvu cyerer yoe;o;m;aom
Asl;i;ursm; \ tawmion wrawmucsewi tea&miEi a¹/₂a&mioe;ae \ /

yw0e;usion wjzn;jzn; at;privmly; wjzn;jzn; armivmon/ wwm;ay:wi
pub;ei;í om;luaom ur;usiorsm;u o tlo&ygon/ oomqvliawm wwm;ay:uae
va&mb;a&m jywu:rm aocsm on/ r;cl;yaomvn; jzwom;jzwvmvrsm; en;rom;ontjyi
yírs;vmov xi&on/

aea&mi v;0 u,aysmuom;aomtcg o r;twgu pwyvmon/ um;xrm xiaewe;
a,mu;aw&U paemup&m jzpaervm;/ ten;q; p;pr;tupr;vaom ruv;rsm;jzi
lunji;u c&Eion/

t... 'avmuawmi bu;us, wre;r aepr;ygap/

olaom apmi&wmlumv pwwly; um;u armi;xuom;&iaum/ t'gr wu, jyóem/
bwpum;aw r&awmyg/

t...bwpum; r&ayr, um;luwpp;pawm awlrmy/ wi;awmiavmu um;jywr,
rxiygb;/

olte;o oi;yaom ar;&euav; a&muvm on/ r; \ &e... o vnlunzi rvyg/

]]O;ri;xi}}

o vnlunvu \ / rjy;ratmi Zwxe;cl;yxm;&on/

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o w E p a , m u w p a m , u u w p a , m u a z m u x i; l u n z l u l; p m; a e l l u o n / o a o m o \
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o r;uawly; Epa , mucsi; &iqi ajz&i;ypc sion/ olaom olrm tcer&yg/ , aelnae &eueyer jzprn/ reujze wevmaewi Argent urPr xwvyo 'g^{1/2}uwmwp0; a&murn/ a&vyie; ap;uuqi&m p;ym;a& vyie;^{1/2}irsm; aq;aE; ywi^{1/2}; reae*sm r&í rjzpyg/ o acgi;ilum vuEpzuu qyilum;x x;oi;zviur\ /

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jzpvmon/ oon txut&m\ tjypwiru cxuaom vwpa, mujzp \ / olaom
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]]azaz uleawmu wpcc ajymy}}

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]]bpm; um;csivv? 'ae wpaev; ri; r&v igwltm;v; 'ua&muw, qwmrsl;
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o emusipm wwqwom; \ /

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jzpw, /

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igwuwe;csuey tvyjzwr, ? ri; reujze ½;vmp&m rvb;}}

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]va&mi&u jzm;a, mi;r...? a, musm;wpa, mu&u ao;aqmir...} oon r; \ pum;v;rm;u
emlun;pm jyelum;a, miae&on/

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o acgi;t;r rsuEm rcmyg/ arar opum;u ,rm r[wwm o oon/ o
&xm;ay:wi xri;rpm;wwwm arar oxm;ygon/

]]ri;taztalumi;vn; ri; ovsuom;e? ola'gou cPav;yg om;}}

b&m;a&/ o azaza'gotalumi; aw;aejci; r[wre; araru b ,v ajymjyEiygrv/

]]om; tazu om; pwrq;oib;}}

]]r[wb;? uleawm azazu pwq;p&m talumi;vn; r&ygb;}}

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]]uleawm reuus azazu awmi;yermyg}}

]]om; ez;u bmjzpwmv}}

o yvwpwm tyxm;aom yww;pu t rwwr om;pr;vuon/

]]acsmvwm arar? rjzpavmu ygb;}}

o;cuy cly&wmyg/

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oujyi;wpcu c*í* niompm jyexuom;avon/

t ce; (18)

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aq;0g;wpc jzpon/

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or onbu vnllunion/ or ruv;rm; ox a&murvmb azazxrmom &\ /

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olu, o xe;or;um ziwrsm; yuvvu outce;qo\ av\muom;vuon/

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oon tce;wcg;u tous,us, aqmirywratmi ren; xe;cyxm;&\\
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trsl;tpm; rcjcm;Eiatmi &on/ Or;omjci;? Or;en;jci;? wevyjci;? tlojci;?
emlun;jci;? aluuji;... tq;0g;q; cpm;curm 1/2;eratmuujci; jzpon/

{nce;qri &,armorsm;on olutce;xtx azmuxi; Oia&muvm\\ o twi;wi;
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ow/ uir;usiom;rm;yg? pce;rm uieru rvtayawb; qr...}}

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uleawmu azaza&rm aumi;aumi; cwwvuwmv/

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t&m&mwiyretwi; wnlirjci;omjzpalumi; ouaojyEi& bu;p;m;&rn/

]]rar, ciw aeaumi;uw, r[wvm;}}

or ½ww&u vnlunly; a&wnwno jyevnom;jye\ /

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'gy/ ciAsm;&U vra&ynmuawm x;ptwi; ony/

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tvi;we;rm a'go&yjzpygon/

]]&i[m b, awmrq t"ue omrnu tjrrw; wvwacsmaw vywww, }}

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av\muar;aw,? tc wjcm;ar;ce;wpc ar;z\ toiawmq;tcerm &iu Eu(u)(p)
talumi; ar;jyely}}

o vAmu en;en;av\mcsei;&i; oru ai;armrom; \ /

]]bmar;ce;v}}

]]u'er &eueu bmalumi vmovqw ar;ce;ayg}}

o owvu'vw vAmu ei;cypvuiyeon/ um;uav;on &yce vsijreaom
t&ejzi ajy;om; \ / a&llrm r;y\i.../ o jyexe; ,vuon/ O;Opm&vr;u c\;au\vuon/

]]vc\yaw vmwiwmq}}

]]t;... 'gu vlu; em;axmiv\ aumi;r , tajzr\;y}}

o &iwvyvy cev\ /

r;& ,.../ uleawm aemuwpur r^{1/2};csiawmygb;/ olaom...

]]'gjzi uav; em;axmiv\ aumi;r , tajzr\;vn; &ao;w , ayg}}

]] [ww , }}

]]'gjzi...}}

ou or v;Ovnrlunyg/ oon vy^{1/2}m;aeaom &iu lirouatmi? reueatmi
b ,vr rxe;c\yEib &aeon/ or\ ab;wursuEmuav;rm yjiaom aumalumi;jzi
ajypaom ye;c\wpcyi jzpon/ Ewcr;rm; ten;i,r\ rjy;ontjyi wi;wi;yi
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]]avmurm c\ywn;rqwm ae&mwumawm rvityb;qwm u'er vucvuyg}}

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&u^{1/2}llrrm;u o cere;\unv\ &ygon/ o um;vuuiw wtm; qynpxm;vu \ /
aus;Z;wiygw , r;& ,.../

]]O;ri;xi}}

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o wpu, v; we, iom;atmi Or;ompwjzi wpc;u'vwce atm'v'u'um um;u
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&ywe'om; \ /

or rsuarmi weau;om;on/

]]t... quarmi;av O;ri;xi? vawu b, v xilurv &i}}

]]b, v xixiA... cPuav; em;vuyg&ap0;}}

o *spueue avou ure;uwe; jyejyiv'u&\ /

]]tcae u'leawm um;quarmi;&i awlor'um;u t uev'u'wuyprvir, }}

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]]ay'sm'v'laygA'sm }}

or\ yivi;aom &, oatmuwi urmavmu'u;wpcv; wwqwom; \ /

*;L;

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မိန်းမဖြစ်စေ၊ ယောက်ျားဖြစ်စေ
ကိုယ်ပတ်ဝန်းကျင်မှာ
ကိုယ်ဟာ အလိုအပ်ဆုံး လူသားဖြစ်အောင်
ကြိုးစားခွင့်တော့ ရှိတယ်လေ။
ကျွန်မဟာ
အမြဲတမ်း အဆင်ရှယ်လဲ ဖြစ်နေရမယ်။
ခင်မိုးမြင့်ဟာ
မိန်းမတစ်ယောက် ဆိုတာကို
မေ့သွားရတဲ့အထိ လိုအပ်နေစေရမယ်။

QIL

မရှိမဖြစ်:

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City Map

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