

CONTENTS

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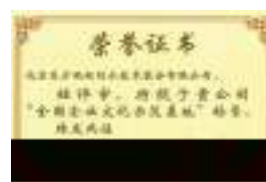
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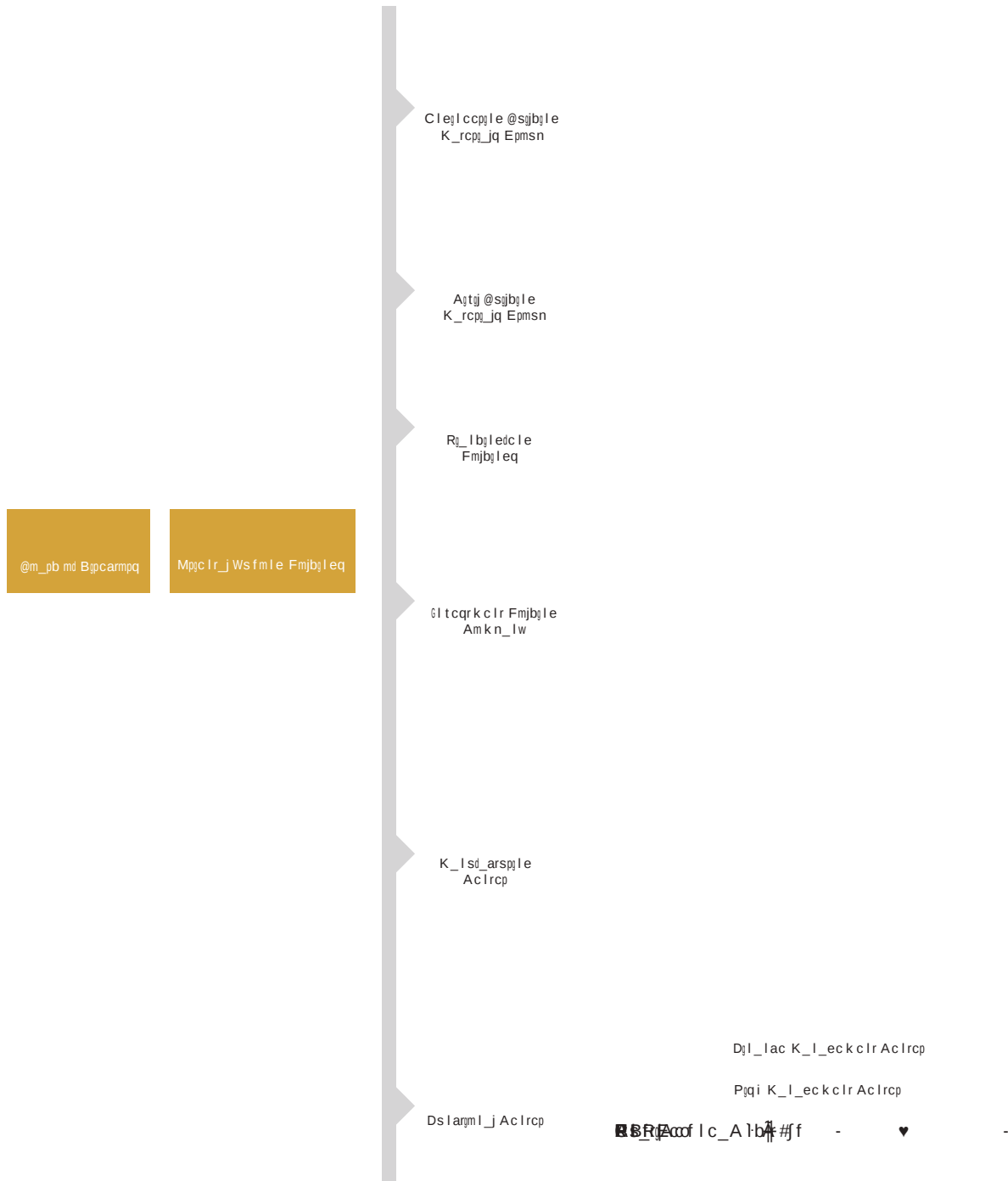
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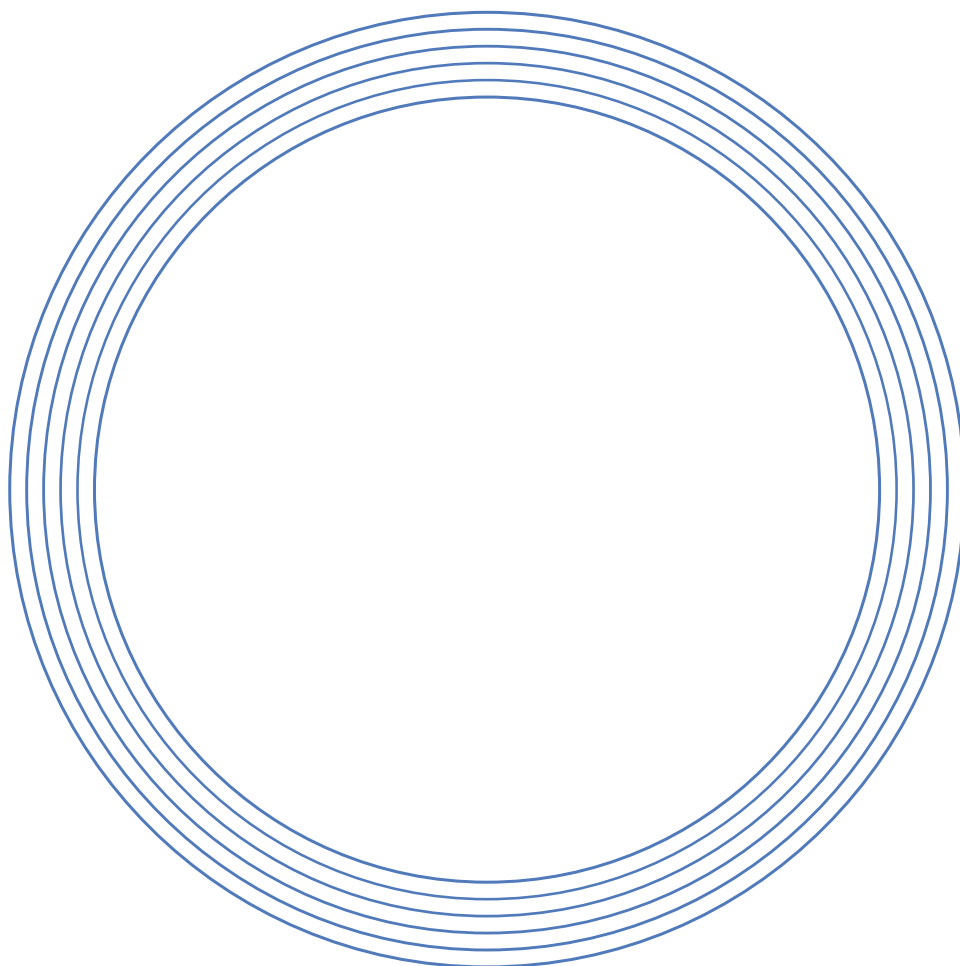
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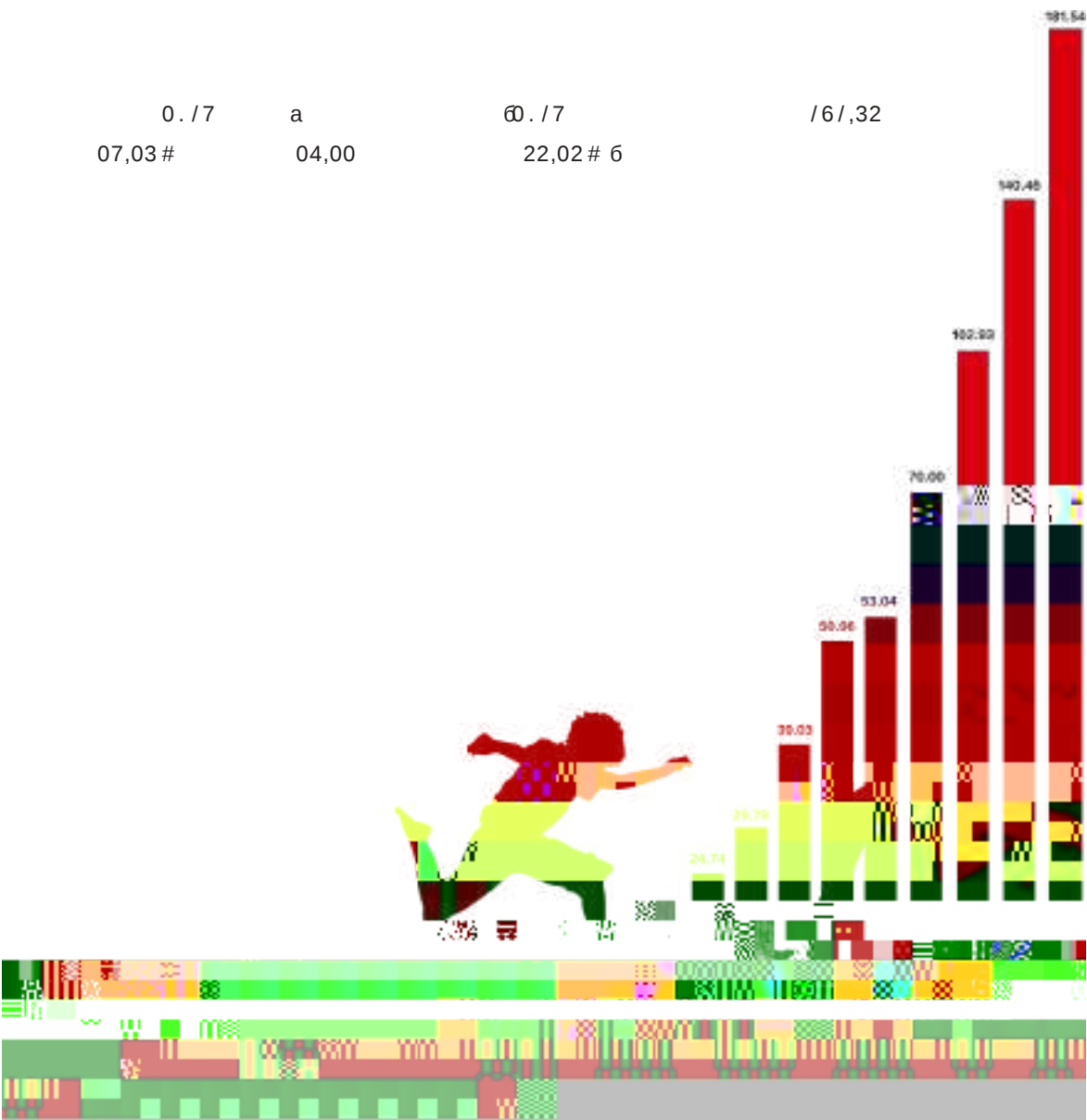


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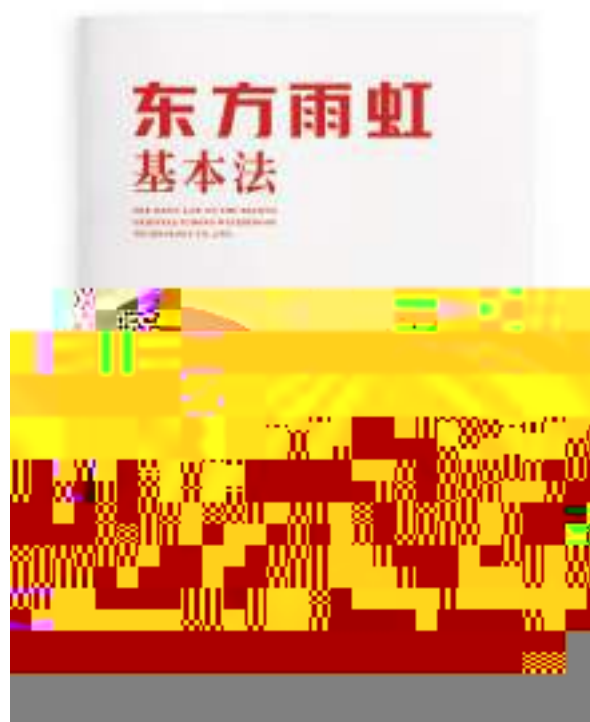
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U c f _ t c a m l r g l s m s q j w m n r g k g x c b r f c q w q r c k b m a s k c l r q m d M p q c l r _ j W s f m l e , ? a a m p b g l e r m r f c _ j r c p _ r g m l m d p c j c t _ l r j _ u q * r f c q w q r c k q p c j _ r c b u g r f m s p q r _ l b _ p b m n c p _ r g m l q u c p c q m p r c b * _ l b q m k c _ p r g a j c q u c p c g k n p m t c b , G l _ b b g r g m l * _ a a m p b g l e r m r f c p c o s p c k c l r q m d j _ u q _ l b p c e s j _ r g m l q * r f c c v _ k g l _ r g m l _ l b _ n n p m t _ j n p m a c b s p c q m d r f c @ m _ p b m d B g p c a r m p q _ l b r f c q f _ p c f m j b c p a m l d c p c l a c u c p c a _ p p q c b m s r ,

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Gl mpbcpr m clqspc r_v n_wkclr _aampbyle rm j_uq* Mpqclr_j Wsfmle a_ppqcb msr r_v i lmujcbec rp_glg le pcesj_pjw, Gr f_q
 mpe_lqxcb dg_l_la_j bcn_prkclr rm a_ppw msr jc_plgle _lb bqasqqgmI* amlrq lsmqjw g knpmtcb amlrq lsmqjw g knpmtcb rfc
 npmdcqqgmI_j os_jgrw md dg_l_la_j k_l_eckclr ncpqmllcj rm clqspc rfcgp npmdcqqgmI_j qigjjq a_l ajmqcjw dmjjmu rfc n_ac

“T” Qma_j Pcame lgrm l

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@w tprsc md cvacjclr npmbarsq _lb qcptqacq* Mpqclr_j Wsfmle f_q uml rfc pcame lgrm l md pc_j cqr_rc rp_bc slgm lq _lb
g lbsqrpw _qqmaq_rgm lq, Qmkc fmlmpq uml `w Mpqclr_j Wsfmle g l 0. / 7 _pc _q dmjmuq8

?srfmpgrw	Fmlmp
Rfc Qr_rc md Amslaqj	Qcamlb Npgrxc md L_rgm l_j Qaqclac _lb Rcaf ljmew Npmeqcq ?u_pb
Afgl _L_rgm l_j @sijbg le U_rcpnpmmd ?qqmaq_rgm l	Emjbc l ?u_pb md Hglws ?u_pb
	Qjtc p ?u_pb md Hglws ?u_pb
Afgl _@sijbg le K_rcpq_jq Clrcpnpgqc K_l_ekclr ?qqmaq_rgm l*	0. / 7 0. 0. / 7 Rmn 0. Afgl qcq `sijbg le k_rcpq_jq clrcpnpgqcq 0. / 7 / . .
Afgl _@sijbg le K_rcpq_jq G lbsqrpw Nj_l lgle G lqgrsrc	Umlsqf_l uml rfc fmlmp l' Afgl _L_q Rmn / . . p_ngbjw+epmu gle `sijbg le k_rcpq_jq clrcpnpgqcq L
Afgl _L_rgm l_j G lqgrsrc md Qr_lb_pbgx_rgm l	l' L 6
Afgl _Clcpew Am lqcpt_rgm l ?qqmaq_rgm l	Ampnmp_rc qr_lb_pb l' jc_bcp L acprqda_rc
Afgl _U_pc fmsqgle _lb Bqrpq`srml ?qqmaq_rgm l	Afgl _Epcc l U_pc fmsqgle _lb Bqrpq`srml Rcaf ljmew G l lmt_rgm l ?u_pb
a	a l' L
Afgl _Pc_j Cqr_rc ?qqmaq_rgm l* Cvacjclr Npmaspc kclr Nj_rdm p k	@clafk_pi clrcpnpgqc*_lls_j l' _pafqrcarspc `j_ai rcaf ljmew L ,

Afgl_Pc_j Cqr_rc ?qqmaq_rgmI Afgl_Pc_j Cqr_rc Ct_js_rgmI AcIrcp Qf_l ef_ C+Fmsqc Pc_j Cqr_rc Pcqc_paf G lqgrsrc	
Afgl_Pc_j Cqr_rc ?qqmaq_rgmI Afgl_Pc_j Cqr_rc Ct_js_rgmI AcIrcp Qf_l ef_ C+Fmsqc Pc_j Cqr_rc Pcqc_paf G lqgrsrc Afgl_Pc_j Cqr_rc Pcqc_paf ?qqmaq_rgmI Afgl_Pc_j Cqr_rc ?qqmaq_rgmI Afgl_Pc_j Cqr_rc Ct_js_rgmI AcIrcp	Rmn 3 npmdqr_`jc jgqrcb amkn_lgcq</p> <p>3..</p> <p>Rmn qsnnjgcp_l b qcptgac npmtgbc p`p_l b md Rmn 3.. bctcjmnn k c l r c l rcpnpgqcq Dgpqr npcdcppcb u_rcpnpmmdg l e k_rcpg_j `p_l b &Mpgc l r_j Wsfm l e'</p> <p>Dgpqr npcdcppcb g l qsj_rgm l k_rcpg_j `p_l b &U m l gsqf_l' Dgpqr npcdcppcb fgef+c l b u_rcp+`_qcb n_g l r `p_l b &A_n_pmj' Lm, 2 npcdcppcb rjic _bfcqg t c `p_l b &Fs_qf_'</p> <p>Lm, / bms`jc+n_ai_ec qcptgac npmtgbc p md b_g_r m k k sb am l qrp sargm l k_rcpg_jq &Jsmbg' a Dgpqr npcdcppcb qncaq_j npmb sar &Mpgc l r_j Wsfm l e @sgjbg l e Pc l mt_rgm l * A_n_pmj'
@sgjbg l e U_rcpnpmmd @p_l af md Afgl_ Am l qrp sargm l G l b s qrpw ?qqmaq_rgm l	Ж 0./7 3 Jgqrcb g l r m l' U f g r c N_ncpq md Fgef+os_jgrw C l e g l c c p g l e U_rcpnpmmd K_rcpg_jq_l b Rca f l m j m e y c q &0./7 C b g r g m l l' L

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Gl 0./7 Mpgclr_j Wsfmle cqr_`jgqfcb jml e+rcpk \_lb qr\_`jc qrp_rcega ammncp_rgmI pcj_rgmIqfqn ugrf T_l ic Pc_j
Cqr_rc Amslrpw E_pbcI _lb Ctcpep_lbc Epmsn, Qmkc fmlmpq umI `w Mpgclr_j Wsfmle gl 0./7 ugrf msqr_lbgIe
nrmdcqgqmI j qcptqacq pc q dmijmuq8

Customer	Honors & titles
Ctcpep_lbc Epmsn	? l l s_j cvacjjc l r qsnnjgcp
Nmucpjml e Pc_j Cqr_rc	l' Qrp_rcega Ammncp_rgm l ? u_pb l * l' Cvacjjc l r Os_jgrw ? u_pb l
T_l ic Epmsn	? ? jctcj qsnnjgcp
Amslrpw E_pbc l	? l l s_j cvacjjc l r qsnnjgcp _u_pb
Xfcl epml e Pc_j Cqr_rc	@cqr n_pr l cp _u_pb
Epcc lrmu l A fg l _	? ? jctcj qsnnjgcp
Qs l _a A fg l _	Cvacjjc l r qsnnjgcp
A fg l _ Q fg nng l e Pc_j Cqr_rc	? ? l l s_j ?+jctcj ac l rp_jgxcb qsnnjgcp
P\$D Epmsn	Cvacjjc l r n_pr l cp qsnnjgcp
AAPC Pc_j Cqr_rc	? l l s_j `cqr qcptgac _u_pb
Vsfsg Epmsn	Cvacjjc l r qrp_rcega qsnnjgcp
Q fg k _m Epmsn	Qncaq_j am l rpg `srng l _u_pb md qrp_rcega qsnnjgcp
E_j_vw Pc_j Cqr_rc	Cvacjjc l r qsnnjgcp
A fg l _ Kcpaf _ l r q Pc_j Cqr_rc	@cqr c l eg l ccpj l e ammncp_rmp _u_pb
A fg l _ Kcpaf _ l r q Qfcims	? Cvacjjc l r qsnnjgcp md qrp_rcega ammncp_rgm l ? l l s_j ?+jctcj qsnnjgcp
Rgk cq A fg l _	? ? l l s_j ?+jctcj qsnnjgcp



&T' Qrpqar Os_jgrw Am l rpmj

&TG' G lrcpl_rgml_j @sqg l cq q Mncp_rgml

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Gl 0. /7 Mpqcl_rj Wsfmle amlrqlscb rm tgc u mtcpcq_q k_picr_q _l g knmpr_lr n_pr md glrcpl_rgml_j qrp_rcew, ?aampbgle rm rfc bgddcpc lrg_rcb j_wmsr md mtcpcq_q k_picr* Mpqcl_rj Wsfmle k_bc bgddcpc lrcvrcl_j _lb glrcpl_j bctcjmnc lrcvr_rcegcq, Mpqcl_rj Wsfmle cqr_`jgqfcb mtcpcq\_q P\$B nj\_rdm k \_lb k\_bc kmpc \_lb kmpc glrcpl\_rgml\_j cvaf\_lcc \_lb ammnpc\_rgml, Qm d\_p grq lcuq f\_q `cc l pcnmpcb `w mtcpcq\_q k\_l qrp\_k kcb\_ qsaf \_q @jmmk `cpe* ?qqma_ rcb Npcqq _lb Pcsrccp, Dmjjmu gle rfc gknjckcl_rgml md k_lw glrcpl_rgml_j kc_qspc* Mpqcl_rj Wsfmle f_q cvn_l bcb grq gl djsc lac gl rfc glrcpl_rgml_j k_picr,



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Ugrf rfc gknjckcl_rgml md Mpqcl_rj Wsfmlelq glrcpl_rgml_j qrp_rcew* rfc npmb sarq md amkn_lw _pc cvnmpcb rm kmpc rf_l / . . amslrpgc _lb pcegm lq qsaf _q Ecpk_lw* @p_xqj* ?sqrp_j_ rfc Slgrcb Qr_rcq* A_l_b_ Psqq_ H_n_l* Qgle_nmpc* Qmsrf lmpc_ Aclrp_j ?dpqa _lb Qmsrf ?dpqa_

Example :

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Rfc dmjjmugle _pc qmkc md rfc k_hmp glrcpl_rgm_l_j nrmicarq slbcpr_icl `w Mpgclr_j Wsfmle gl 0. / 7

L_k c md Npmicar	Npmbsar Qwqrc k	Npmicar Gl djsc lac
I_p_afg lsajc_p nmucp nj_lr* N_igqr_l	RNM* RNM* pmai ummj `m_pb	l' l' l' l' l' l' 6 Rfc N_igqr_l l_p_afg lsajc_p nmucp nj_lr amlqrsargm l nrmicar gq _ammncp_rgtc nrmicar `crucci Afgl _lb N_igqr_l, Gr gq _l gknmp_r _afgctc kclr md Afgl _Lq gknjc kclr_rgm_l md rfc l' Afgl _+N_igqr_l Caml m kga Ampgbmp l _lb rfc l' @cjr _lb Pm_b l glgr_rgtc* _jqm _l gaml ga nrmicar md Afgl _Lq lsajc_p nmucp l'emgle msrl qrp_rcew,
Nf_qc G N_pigle ?npl md Crfgmng_l Nm_j_pmg b ?gnmpr	WQ0.0	a a 6 Nmj_pmg b Glrcpl_rgm_l_j ?gnmpr gq jma_rcb gl ?bbgq ?`_`_ rfc a_ngr_j md Crfgmng_, Gr gq rfc k_gl _tg_rgm_l fs` md Crfgmng_l ?gpgl cq* ugrf pmsrcq _jj mtcp rfc amsl rpw _lb rfc ?dpg_a_l amlrglclr* _jqm cvrc lbgle rm ?qg_* Cspmnc _lb Lmprf ? kcpga_,
+ Fmle lmle+Xfsf_g+ K_a_m @pgbec K_a_m Nmpr+mtcpqc_q n_pigle e_p_ec nrmicar	Q?K70. ?PA Q?K70. lml+aspcb ?PA pmmr+ nslarspc pcqqr_lac	ж 3 6 Rfc pcqsjr md rfc _lls_j `cqr _lb msqr_lbgle cleglccpgle nrmicarq qcjcarb `w l' SQ? Cleglccpgle Lcuq Pcambp l ucp _l lmslacb, Rfc nrmicar md Fmle lmle+Xfsf_g+K_a_m @pgbec K_a_m Nmpr K_l _eckclr Xmlc u_q p_rcb _q_l msqr_lbgle _gnmpr _lb nmpr nrmicar,
J_mq RT qr_rgm_l pclmt_rgm_l nrmicar	@NQ0.0 Npg k_pw rpc_rkclr _eclr	l' l' l' l' 6



?ddmpb_`jc fmsqgle g l Lcu Xc_j_lb	Q@Q @NQ0.0 Q?K70. Q@Q @NQ0.0`_qc rpc_rkclr_eclr	l l l l 6 Rfgq gq_lmr fcp dmpcge l _gb nrmicar g l mpbcp rm g knjc kclr Afg l_`lq l`@cjr_lb Pm_b l g lgrq_rqt c _l b rfc l`emgle msr l</p> <p>qrp_rcew md p_bgm* djk _l b rcjctgqgm l asjrspc* g l mpbcp rm c l f_lac</p> <p>Afg l_`lq g lrcpl_rgm l_j ns`jgagrwa_n_agrw,

Ugl+ugl Ammncp_rgmI

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Gl jglc ugrf rfc amlacnr md cos_jgrw _lb ugl+ugl ammnep_rgmI* Mpqlr_j Wsfmle a_ppqcb msr fgef+clb ammnep_rgmI ugrf
n_prlcpq* k_glr_glcb qr_jc _lb cddqagclr qsnnpjw af_gI* amlrgls_jjw npmk mrcb rfc amlacnr md ampnmp_rc qmag_j pcqnmI qg`ggrw
rm qsnnpjcp n_prlcpq* _angtcjw cvn_l bcb rfc bctcjmnc kclr qn_ac md rfc amkn_lw* grq n_prlcpq _lb rfc glbsqrw rm hmglrjw amnc
ugrf af_jjclecq md rfc t_pqmsq rwncc md cltqpmI kclr _lb qmagcrw, Ugrf `p\_lb pcqnmI qg`ggrw _q grq nfgjmnmfw* Mpqlr_j
Wsfmle npmtgbcb asqrm kcpq ugrf rfc ufmjc+npmacq* ksjrgbk clqgmI _j* _lb bccn amk kslga_rgmI os_jgrw qcptqacq,

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Mpqlr_j Wsfmlelq k_hmp p_u k_rcpq_j qsnnpjcpq _pc cvacjiclr bmkcqrqa _lb dmpcgeI clrcpnpgqcq qsaf _q ALNA* Qglmnca*
Acj_lqc* @?QD* U_aicp* @_qcj* J?LVCQQ* W_lr_g U_lfs_* Jg Af_lepmle* cra, ?drp wc_pq md ammnep_rgmI* rfc amkn_lw
uclr glrm ajmqc qrp_rcega pcj_rgmI qfqn ugrf rfc _`mtck clrgmlcb amkn_lgcq* _lb gr qd mlc md rfc j_pecqr ajgcIqr md rfmqc
clrcpnpgqcq,

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AcIrp_jgxcb nspaf_qgle qg _ k_hmp nspaf_qgle kmcb md Mpqlr_j Wsfmle, Ugrf ejm`_jgx_rgmI* gl dmpk_rgx_rgmI* qslqfqlc
npmaspc kclr _lb qsqr_gI`jc bctcjmnc kclr _q k_l_eckclr amlacnrq* Mpqlr_j Wsfmle k_bc ugl+ugl bctcjmnc kclr ugrf
grq snqrp] u t amkn d tnpmaspc k

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Mpgclr_j Wsfmle f_q glrpbmsacb sl_l_lmslacb glqncargml qwqrck glrm rfc nmacqq k_l_eckclr* amlrpmjjcb rfc os_jgrw dpmk rfc ncpqncargtc md rcaflmjmw pcqc_paf _lb bctcjmncclr* nmacqq amlrpmj* u_pc fmsqgle _lb jmeqqrqac, Gr f_q _jqm a_ppqcb msr ksjrq+bqkclqgm_l_j amnncp_rgm_l _lb cvaf_lecq gl rcaflmjmw* `cqr np\_arqacq\* cltqgm\_l kclr\_j nprmcargml\* cra, Gl \_bbqrgml\* Mpgclr\_j Wsfmle \_bmnrq \_ qsnmpqtc \_rrqrsbc rmu\_pbq qk\_jj \_lb kcbqsk+qgxcb qsnnjgcpq, Ugrf qrg ajc\_p `p_lb nmcqrgmlgle _lb dmpu_pb+jmmigle nmaspc kclr qrp_rcew* gr f_q _qqqgrcb n_pr_lcpq gl qmjtgile dg_l_lagile _lb ampnmp_rc mncp_rgm_l npr`jc kq* nprmtqbc b amknpfc lqgtc rcaflga_j qsnmp_r _lb _afqctcb ugl+ugl bctcjmncclr,

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Gl tgc u md rfc bck_lb `w \_ ugbc p\_lec md clb+amlqskcpq dmp fgef+os\_jgrw u\_rcpnpmmd nprmbarsq\* Mpgclr\_j Wsfmle k\_icq grqcjd \_aacqq`jc rm rfc mpbg_l_pw fmkcq rfpmsef rfmsq_l bq md qrmcpq md rfc j_pec+qa_jc bmkcqrga msrdgr amkn_lqcc _lb `sgjbgile k_rcp_jq k_picrq* qsaf _q Wclmt_* lsm_b_* C_qwfmkc* Emjb k_lrgq cra,

1 Example 1:

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Nmaspc kclr Qsnjw Ac_lrcp amlrq_lsmsqjw gknpmtcq glrcpl_j qcptqac os_jgrw* _lb qg bcbga_rcb rm rfc gl dmpk _rgx_rgm_l* fgef cddqayclaw _lb nprmdcqqgm_l_jqk md qsnjw af_gl k_l_eckclr, R_pecrgle rfc kglgk sk rmr_j amqr md mulcpqfqn* Mpgclr_j Wsfmle amlrq_lsmsqjw gknpmtcq rfc qsnjw af_gl k_l_eckclr a_n_`g_jgrw md Nmaspc kclr Bcnr, md jma_j nj_lrq, Gr mnrg kqxcb t_pqmsq k_l_eckclr glbga_rmpq _lb ncpdmpk_lac ct_js_rgm_l nj_lq* _lb k_bc pcqsjr+mpqclrcb gknpmtc kclr md k_l_eckclr cddqayclaw md qsnjw af_gl, Dpmk rfc ncpqncargtc md nmaspc kclr k_l_eckclr kmbcj* qsnnjgcp ncpdmpk_lac* _lb qrp_rcega qsnnjgcp amlrqpsargml* cra,* Mpgclr_j Wsfmle f_q cqr`jgqfcb _ fgef+cddqayclaw qsnjw af_gl* k_bc hmglr bctcjmncclr rm nprkmrc rfc amlrq_lsmsq snb_rc md glbsqrpw rcaflmjmeqcg* amlrq_lsmsq gknpmtc kclr md ksjrq+bqkclqgm_l_j qsnjw af_gl* qm _q rm ugl rfc pcqncar md rfc glbsqrpw nccpq _lb asqrm kcpq, Rfcw f_tc epmul glrm n_pr_lcpq ugrf amk kml t_jscq _lb _afqctcb ugl+ugl qsaacq,

2 Example 2:

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MI ?npqj /6* 0./7* Mpqclr_j Wsfmle U_rcpnpmmd Rcaflmjmw Am,* Jrb, _lb U_aicp Afckq?E _llmslacb rfc
cqr_`jqf kclr md \_hmqlr j\_`mp_rmpw _lb fcjb rfc sltcqgle acpckmlw, Rfc `mrf amkn_lqcg uqjj a_ppw msr gl+bcnrf
ammncp_rgm l gl `qqa pcqc_paf _lb _nnja_rgm lq md u_rcpnpmmdgle am_r* gl mpbcp rm nrm kmrc rfc pcqc_paf _lb
bctcjmkn kclr md fgef+ncpdmp k_lac _lb cltqpm l kclr+dpqclbjw u_rcpnpmmdgle npmb sarq _lb npmtqbc asqrm k cpq ugrf
kmpc jmu+mbmp* qmjtclr+dpcc* cltqpm l kclr_jjw dpqclbjw* _lb fgef+ncpdmp k_lac u_rcpnpmmdgle npmb sarq,



3 Example 3:

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MI Lmtck `cp 5* 0./7* Mpqclr_j Wsfmle _lb Acj_lqcg qgelcb _ amknpcfc lqgtc qrp_rcega ammncp_rgm l _epcc kclr,
@mrf n_prcq uqjj a_ppw msr gl+bcnrf ammncp_rgm l gl rfc _qncar md npmb sar pcqc_paf _lb bctcjmkn kclr* rfc bctcjmkn kclr
gl ckcpqgle k_picr* q_dcrw* cltqpm l kclr_j nrmrcargm l _lb qsqr_gl_`jc bctcjmkn kclr, @mrf n_prcq ucpc bctmrcb rm
pc_afgle _ ammncp_rgm l _epcc kclr* gl mpbcp rm nsqf rfc qsqr_gl_`jc bctcjmkn kclr md u_rcpnpmmdgle _lb cksjqgm l
glbsqrpw ugrf afckqa_j qmjsrgm lq `crrcp rf_l mrfcp amknrcrgmpq,

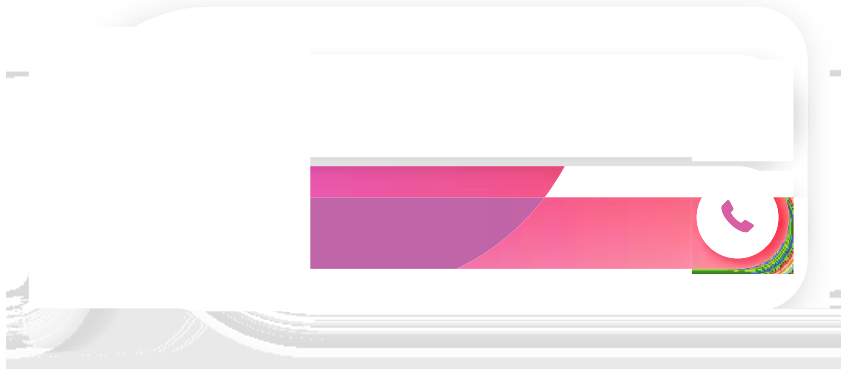
&GG' Asqrm k cp Pcqnml qg`g jgrw K_I_ec k c l r

/ a

K c c r a s q r m k c p l c c b q u f m j c f c _ p r c b j w * _ l b p c _ j g x c m t c p _ j j a m t c p _ e c m d k _ p i c r g l e l c r u m p i

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Mpgclr_j Wsfmle f_q cqr`jqfcb npmbarsgmI \$ jmeqrgaq P\$B`_qcq gl Lmprf Afgl_* C_qr Afgl_* Lmprfc_qr Afgl_* Ac lrp_j
Afgl_* Qmsrf Afgl_* Lmprfucqr Afgl_* _lb Qmsrfucqr Afgl_* cra, Rfc a_n_agrw j_wmsr gq pc_qml`jc _lb amtcpq _ ugbc
p_l ec* qm_q rm clqspc rfc amkn_lwq npmbarsq a_l amtcp l_rgmI_j k_picr ugrf jmu amqr md u_pc fmsqgle _lb jmeqrgaq, U fgjc
kccrgle asqrm k cpq bgtcpqgdc npmbars bck_l b _lb l_rgmI_j qsnnjw pcosgpc k c l r* Mpgclr_j Wsfmle f_q mulcb gl amkn_p`jc
amknrcrgtc _bt_l_r ecq, NpmbarsgmI`_qcq md Mpgclr_j R_l eqf_l Nf_qc GG* Bcw_le gl Qgafs_l* Hg_l bc gl F_l exfms* Wscw_le
gl Fsl_l npmtglac f_tc`cc l nsr gl rm mncp_rgmI, Rfcw mnrg k g x c b rfc a_n_agrw j_wmsr md Mpgclr_j Wsfmle* _lb dsprfcp clqspcb
rfc qr`jc g knjckclr_rgmI md Nclcrp_rc gl rm rfc U fmjc L_rgmI_j K_picr qrp_rcew, Rfc dmslb_rgmI md Mpgclr_j Wsfmle
npmtgbgle fgef+os_jgrw npmbarsq rm asqrm k cpq am l rg l smsqjw _lb am l t c l g c l r jw u_q qmjgbgdc b,





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&G'T' Jcr U_rcpnpmmd G lbsqrpw Mnep_rc Slbcp Rfc Qs l

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?q npcqgbc l r md rfc `m\_pb md Afq l \_ @s j b g l e U \_rcpnpmmd ?qqma q \_r g m l \* M p g c l r \_ j W s f m l e a m l r p g `s r c b k s a f r m r f c b c t c j m n k c l r
md rfc g l b s q r p w _ l b n p m k m r c b r f c q r _ l b _ p b g x _ r g m l md rfc g l b s q r p w , R f c a m l a c l r p _ r g m l b c e p c c md b m k c q r g a `s j b g l e k _ r c p q _ j q
g l b s q r p w g q j m u * _ l b r f c k _ p i c r a m k n c r g r g m l g q l m r q r _ l b _ p b g x c b , J _ p e c g l b s q r p w _ l b q k _ j j c l r c p n p g q c q _ p c q r g j j r f c g l b s q r p w
b c t c j m n k c l r d c _ r s p c q , R f c p c _ p c k _ l w u _ r c p n p m m d g l e k _ l s d _ a r s p c q g l A f q l _ , C v a c n r _ d c u c l r c p n p g q c q u g r f f g e f j c t c j *
k m q r c l r c p n p g q c d c _ r s p c q k _ j j q a _ j c * j m u r c a f l m j m e w j c t c j _ l b s l g k n p m t c b n p m b s a r g m l r c a f l g o s c q , R f c p c _ p c k _ l w d _ i c
n p m b s a r q _ l b l m l + q r _ l b _ p b n p m b s a r q g l r f c k _ p i c r * _ l b r f c g l b s q r p w f _ q m s r q r _ l b g l e n p m `j c k q g l a j s b g l e m s r b _ r c b _ l b
c v a c q q a _ n _ a g r w * b g q m p b c p j w g l b s q r p g _ j a m k n c r g r g m l * _ l b c l t g p m l k c l r _ j n p m `j c k q , U g r f n m u c p d s j q c j d + b g q a g n j g l c q n g p g r * M p g c l r _ j
W s f m l e a m k n _ p c q g r q c j d r m r f c k m q r c v a c j j c l r g l r c p l _ r g m l _ j n c c p q * g r f _ q _ j u _ w q g l q g q r c b m l r f c b g q a j m q s p c md p c q n m l q g `g j g r w
d s j d g j j k c l r g l d m p k _ r g m l _ l b _ b f c p c b r m f g e f + o s _ j g r w m n c p _ r g m l ,





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Gl _aampb_lac ugrf amkn_lw amlbgrm_lq _lb glbsqrpw amlbgrm_lq* Mpgcl_r_j Wsfmle rmmi k_igle qagclrgdga _lb rcaflmjmeja_j gl_lmt_rgm_l9 qcptgle rfc amslrpw `w glbsqrpw bctcjmnnkclr \_q ampnmp\_rc esgb\_lac, Gr `sajr sn _l gknpm tcb qagclrgdga \$ rcaflmjmeja_j gl_lmt_rgm_l qwqrck* _lb a_ppqcb msr rfc amlacnr md glbcncibclr gl_lmt_rgm_l amlacnr gl amlqpsargm_l _lb cleglccpgle np_arqacq, Ml rfc dmslb_rgm_l md bmkcqrga _lb mtcpcq_q _bt_lacb gl_lmt_rgm_l pcqsjr_q* gr jcb rfc glbsqrpw bctcjmnnkclr rclbclaw* nsqfcb dmpu_pb glbsqrpw bctcjmnnkclr _lb gknpm tcb grq mul _lb rfc glbsqrpw lq qsqr_gl _`jc bctcjmnnkclr,

GIImt_rgmI Kcaf_lggk Jc_bq Bctcjmknclr

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 l' a a L l' L
 l' 641 L a a 6
 @w tqprsc md rcaflmjmw gllmt_rgm qrp_rcew* Mpgclr_j Wsfmle f_q cqr_`jqfcb _ qagclrgdga pcqc_paf nj_rdmpr g l rcep_rgle
 npmbars pcqc_paf _lb bctcjmknclr* npmbarsrgml rcaflgosc* _nnjga_rgm l rcaflmjmw* cleglccpgle rcaflmjmw* rcqrle
 _lb glqncargml* mtcpcq_P\$B*_lb qrp_rcega pcqcptcq, Gr f_q dmpkcb _qwqrck P\$B _qpap_dr a_ppgcp epmsn amtcpgle
 qwqrck bcqel* k_rcpg_j P\$B*amlqrpsargml _lb qigjj qcptgacq*_lb gr f_q slbcpr_icl l_rgm_l_j nprhicarq qsaf_q l_rgm_l_j
 641 nj l*qr rc icw npmbars _lb qr rc rmpaf nj_l* cra,

Qagc l rgdga Pcqc_paf Nj_rdmp k

Product R&D	Product R&D Center
Production Skills	Production Skills & Equipment R&D Center
Application Technology	Application Technology Research Center
Engineering Technology	Engineering Construction Technology R&D Center
Testing & inspection	CNAS CMA CNAS and CMA certification standardized laboratory
Overseas R&D	Waterproof coat global excellence research center
Strategic reserve	State key laboratory of special functional waterproof materials R&D platform of high polymer waterproof material and product High Polymer Material R&D Center

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Gl rfc _qncar md ncpqml lclj _jjma_rgm l* Mpjclr_j Wsfmle Rcaflmjmw Ac lrcp f_q cknjmwcb 2 _a_bckgaq_lq dpm k Afglcqc
?a_bckw md Clcglccpgle* 5 glrcpl_rgm l_j d_kmsq qaqlrgqrq* / cvncpr clhmwgle rfc Qr_rc Amslaaj _jjmu_lac* _lb 03 cvncprq
fm lmpcb l' Rcaflmjmw Jc_bcpql, Kmpc rf_l / . escqr nprmdcqqmpq dpm k rfc SQ?* A_l_b* Fl* bmkcqrqa amjjcecq _lb
pcqc_paf glqqrsrcq f_tc a_ppqcb msr rcaflmjmw am k slga_rgm l _lb egtcl glqrsargmlq gl rfc j_`mp_rmpw md Mpjclr_j Wsfmle,
Mpjclr_j Wsfmle P\$B rc_k glajsbcc 00 bmarmpq* 00/ ncpqmlq ugrf k_qrcp Lq bcepc, ?jj dsjj+rgkc P\$B ncpqml lclj f_tc
k_qrcp mp fgfcpc jctcj bcepc, Mpjclr_j Wsfmle f_q glrpbbsac 5 pcqc_paf cvncprq pcrsplgle dpm k mtcpcq_q qrsbw* 2
dmpcge l cvncprq _lb 1 _a_bckgaq_lq* 2 wmsle r_jclrq uml rfc qsnmmp md @cglgle Lcu Rcaflmjmw Qr_p Npmhcar* 0 uml rfc
fm lmp l' Cvacjjclr Wmsle R_jclrq gl Qfslwg Bqqrpgar L* _lb 0 mrfcpc `ca_kc a_lbgb_rcq md l' @cglgle Kjjgm lq md R_jclrq
Npmhcar L,

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Gl rfc _qncar md kcaflga_j es_p_lccc* Mpjclr_j Wsfmle k_bc Mpjclr_j Wsfmle K_l_eckclr Kc_qspcq dmp Gl lmt_rgtc
Npmhcar * Glac lrgtcq dmp Qaqlrgdga Pcqsirj Ct_js_rgm l _lb Glac lrgtcq dmp Pc_qml _jc Qseecqrgmlq , Mpjclr_j Wsfmle
f_q clamspecb rcaflga_j r_jclrq rm n_prgagn_rc gl cvrcpl_j r_jclr asjrt_rgm l nmpcp_kq glajsbgle l' Lcu Rcaflmjmwga_j
Qr_p L* l' R_jclr Jc_bcp L* l' Kmbcj Umpicp L _lb l' Qrp_rcega Pcqcptc R_jclrq L, Rfc amkn_lw k_icq km lrfjw qsk k_pw
md gl lmt_rgm l npmhcar, Ctcpcw wc_p gr a_ppqcc msr qigjj a l_r ° lq md_lhcams ° d mpc_lgl l mpr,

a a a 6 a a 6

Rfc amkn_lw f_q dmsl bcb apmq+ds larqml_j rc_k* qcr sn cknjmwcc mngl qml `mv\* \_bmnrbc pc\_qml `jc qseecqrgmlq* _lb clamspecb cknjmwccq dmp gl lmt_rqml, ?r rfc q_kc r_qkc* _btma_rcb ksjrbqk clqql_j _lb ksjrbqqaqngl_pw gl lmt_rqml ugrfmsr jgkgrq,

Example :

0./7 1 05 l' a L
6 0./6 0./7
60./6 1 a 2 a
1 / a0 34 NAR 1 a
33 QAG 13 a - // 6 6

MI K_paf 05* 0./7* rfc Qr_rc l cw J_`mp\_rmpw md Qncag\_j Dslarqml\_j U\_rcpnpmmd K\_rcpq\_jq fcbj rfc dmsprf kccrgle md rfc dypqr ?a\_bckga Amk kgrcc gl @cghle ugrf rfc rfc kc md l' Pcqmjsrc Gl lmt\_rqml \_lb Amsp\_ec rm ?bt\_lac L, ?r rfc kccrgle\* Bs\_l Ucldcle\* bopcarmp md rfc Qr\_rc l cw J\_`mp_rmpw md Qncag_j Dslarqml_j U_rcpnpmmd K_rcpq_jq* pcnmpcb ml rfc umpi _afgctckclrq gl 0./6 _lb rfc icw umpi nj_l gl 0./7, Gl 0./6* rfc Qr_rc l cw J_`mp\_rmpw md Qncag\_j Dslarqml\_j U\_rcpnpmmd K\_rcpq\_jq f\_b slbcpr\_i cl 1 l\_rqml\_j+jctcj npmhcarg \_lb 2 npmtglag\_j+jctcj \_lb kglqrpw+jctcj npmhcarg, Gr f\_q uml 1 npmtglag\_j \_lb kglqrpw+jctcj qagclac \_lb rcaflmjew \_u\_pbq, / \_afgctckclrf\_q `ccl acprgdc b rm pc_af rfc glrcpl_rqml_j _bt_lacbjctcj* 0 _afgctckclrf_q f_tc pc_afcb rfc glrcpl_rqml_j jc_bgle jctcj* 34 n_rclr_nnjja_rqml f_tc `ccl qs` kgrcb &glajsbgle _nnjja_rqml dmp rfpcc NAR n_rclrq* 33 n_ncpq f_tc `ccl ns` jgqfcb &glajsbgle 13 QAG n_ncpq', Rfc j_`mp\_rmpw \_jqm n\_pragrncb gl // l\_rqml\_j-glbsqrpw qr\_lb\_pbq, Gl pcacrlrfpcc wc\_pq\* rfc qagclrqda \_lb rcaflmjew pcqsirg f\_tc `ccl rp_lqdm p kcb gl rm rfc `clcdgrq md \_jk mqr PK@ / `gjjgm l gl rmr_j,

Gl lmt_rqml Nj_rdmprk E_rfcpgle Qrplrf

a a 6

Mpgclr_j Wsfmle `sgr sn glrcpl_j _lb cvrcpl_j P\$B nj_rdmprk q* qrpclrfclcb amnncp_rqml ugrf clrcpnpgqcc _lb amjceccq* _lb a_ppqcb msr ksjr+j_wcp amnncp_rqml md npmbargml* _a_bckw* _lb pcqc_paf,

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?bfcpgle rm rfc amlacnr md Rcaflmjew Dypqr* Gl lmt_rqml Dmpckmqr * mtcp rfc n_qr k_lw wc_pq* rfc amkn_lw f_q cqr `jgqfcb amnncp\_rqtc pcj\_rqmlq ugrf \_j\_pec `raf md qagclrqda pcqc_paf glqgrsrgmlq _lb umpjb d_kmsq afckga_j cleglccpgle clrcpnpgqcc* qsaf _q Jcfgef Slgtcpqgrw md rfc Slgrcb Qr_rcq* @cghle Slgtcpqgrw md Afckga_j Rcaflmjew* Glqgrsrc md Afckqrpw* Afglcqc ?a_bckw md Qagclacq* rfc Bmu Afckga_j Amkn_lw* @?QD cra, Rfc amkn_lw f_q

cqr_`jgqfcb Cksjqgm Nmjkcpq_rgm Cvnckpcklr Aclrcp ugrf Jcfege Slgtcpqgrw md rfc Slgrcb Qr_rcq*_lb f_q_afgctcb
bmxcld md rcafImjmewa_j pcqsirg rfpmsf hmglr pcqc_paf _lb bctcjmncb ugrf @cghle Slgtcpqgrw md Afckga_j RcafImjmew*
Ogleb_m Slgtcpqgrw md Qagclac _lb RcafImjmew* qsaf _q fgef uc_rfc+npmm nspc nmjwspc _cj_qrga am_qrgle* qnp_w rwn
fgef amlacirp_rgm qcjd+f_pbcigle ps`cp\_qnf\_jrn\_glr cra,9 \_lb f\_q\_jqm hmglrjw bctcjmncb \_lb sqcb\_rjclrq ugrf \_lsk`cp
md fgefcp jc_plgle glqgrsrqmlq* qsaf _q @cghle Slgtcpqgrw md Afckga_j RcafImjmew* Rq_lhgl Slgtcpqgrw*_lb Fs`cgl Slgtcpqgrw
md RcafImjmew cra,*`w kc_lq md qafmj_pqfgn*_lb nmkmrbc qmslb ammnrcp_rgtc pcj_rqmlq ugrf fgefcp jc_plgle glqgrsrqmlq,

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Gl_aampb_lac ugrf qrp_rcega bctcjmncb nj_l* npmbars
os_jgrw* amlqrsargml _lb qcptgac pcospckclrq* Mpgclr_j
Wsfmle f_q amlrq_lmsqjw gbc_lrgdcb amppcqnmibgle j_uq
_lb pcesj_rqmlq _lb bgddcpclr pcesj_rmpw qwqrc k* gl mpbcp rm
kccr rfc pcospckclrq md bgddcpclr pcj_rcb n_prgcq _lb`pgle
pcqmpac_bt_lr_ec dmp qsr_gl`jc amkn_lw bctcjmncb
md rfc amkn_lw,



Example:

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MI_Hls_pw /. * 0.0. * rfc Aclrp_j Amk kgrrcc md rfc Amk kslgr N_prw md Afgl _lb rfc Qr_rc Amslaaj fcjb rfc L_rgm_l_j
Qagclac _lb RcafImjmew ?u_pb Amldcpclac gl rfc Epc_r F_jj md rfc Ncmnjc gl @cghle, Rfc npmicar l' Amknjrc RcafImjmew
_lb Cleglccpgle ?nnja_rgm_l md Fgef+ncpdmpk_lac Ksjrg+k_rcpg_j _lb Ksjrg+j_wcp Nmjkcp Amgj dmp Slbcpepmslb Qn_ac
U_rcpnpmmd Npmrcargml L uml rfc qcamlb _u_pb md l' L_rgm_l_j Qagclac _lb RcafImjmew Npmepcq ?u_pb L gl 0./7, @cghle
Mpgclr_j Wsfmle U_rcpnpmmd RcafImjmew Am,* Jrb, u_q rfc dpgqr amknjrgml slgr md rfc npmicar* ugrf @cghle Slgtcpqgrw md
Afckga_j RcafImjmew* Wscw_le Mpgclr_j Wsfmle U_rcpnpmmd RcafImjmew Am,* Jrb, _lb @cghle Mpgclr_j Wsfmle U_rcpnpmmd
Cleglccpgle Am,* Jrb, _q rfc k_hmp amknjrgml slgrq,

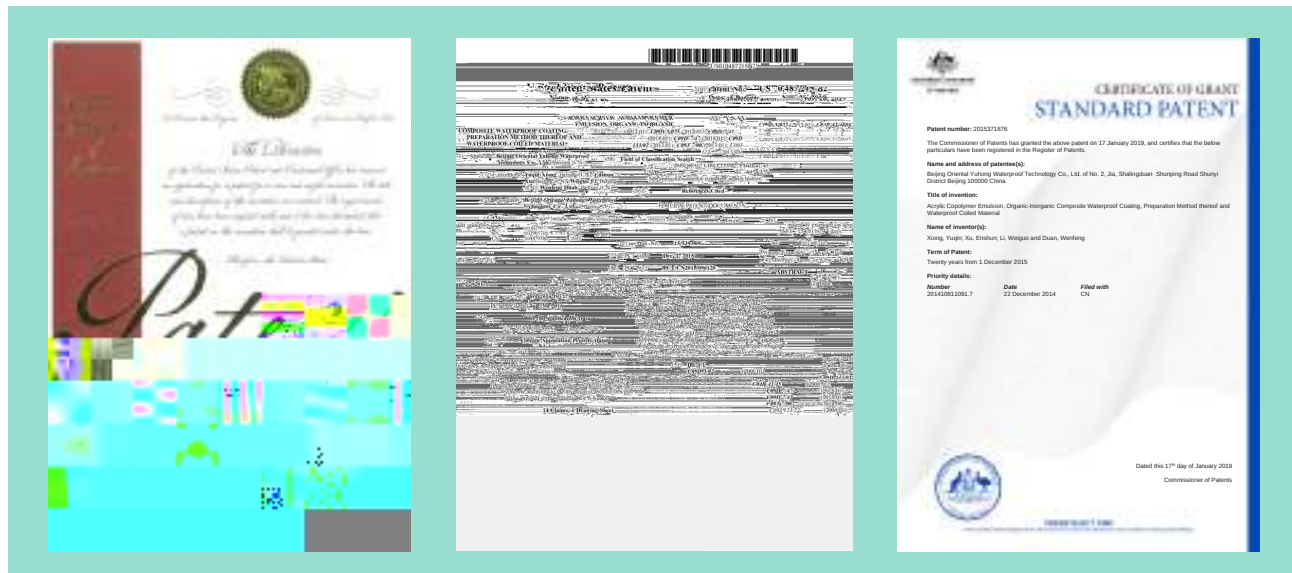


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Gknmpr_lrgl_lmt_rgm_l nrmicarq8 Mpjcl_rj Wsfmle amprmp_rc rcaflmjmeu ac lrcp amknjrcb 1 L_rgm_l_j Rmpaf Nj_l nrmicarq*
O l_rgm_l_j icw lcu nrmbsar rcaflmjmeuq* / l_rgm_l_j 641 nj_l nrmicar* 1/ ampc rcaflmjmeuq*_lb /3. glbcnc lbc lrcjw
gl lmt_rgtc nrmbsarq,

0./7 /0 1/ 6/3 033 26/
57 0 6
N_rc lrcq8 ?q md Bcack`cp 1/* 0./7* rfc ufmjc epmsn f_q mulcb 6/3 t_jgb n_rc lrcq &glajsbgle 033 gltclrgml n_rc lrcq* 26/
srqjgrw kmbcj n_rc lrcq _lb 57 bcqgel n_rc lrcq* glajsbgle 0 t_jgb dmpcge l n_rc lrcq,

- - 22 6
Glbsqrpw qr_lb_pb8 Gl pcac lrc wc_pq* clrpsqrcb `w glbsqrpw _qqmaq_rgm_lq* Mpjcl_rj Wsfmle npcqgbc b mtcp mp n_prgagn_rcb gl
rfc amknj_rgm_l md 22 l_rgm_l_j glbsqrpw qr_lb_pbq,

0./7 FBNC &Slgrcb Qr_rcq N_rc lrc _lb Rp_bck_pi Mddqac'



G l l m t _ r g m l ? n n j g a _ r g m l C v _ k n j c q

& G ' ? n n j g a _ r g m l R c a f l m j m e w P c q c _ p a f ? l b N p m k m r g m l

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Q g r s _ r c b q l Q f s l w g * @ c g h j l e * M p g c l r _ j W s f m l e ? n n j g a _ r g m l R c a f l m j m e w A c l r c p m a a s n j c q _ l _ p c _ m d / * . . . k 0 , G r f _ q ? n n j g a _ r g m l R c a f l m j m e w _ l b @ _ q q a Q s ` h c a r A m k n p c f c l q t c P \$ B B c n _ p r k c l r * A m k n m l c l r Q w q r c k P \$ B _ l b N p m k m r g m l B c n _ p r k c l r * R c a f l m j m e g a _ j Q s n n m p r Q c p t g a c B c n _ p r k c l r * _ l b A m k n p c f c l q t c K _ l _ e c k c l r B c n _ p r k c l r ,

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G l t g c u m d r f c n c p d m p k _ l a c m d b g d d c p c l r n p m b s a r q * r f c a m k n _ l w a m l b s a r c b n c p r g l c l r r c a f l m j m e g a _ j g l l m t _ r g m l , R f c d m j m u g l e _ p c r f c k _ g l c v n c p g k c l r _ j r m n g a n p m i c a r q r f _ r _ p c a s p p c l r j w b e t c j m n g l e _ l b f _ t c a m k n j c r c b q l 0 . / 7 g l r f c _ q n c a r q m d k _ g l n p m b s a r q _ l b a m l q r p s a r g m l q w q r c k q ` w r f c a m k n _ l w b

Am k njrcb cvncpj k c l r npmep_ k q

- $$P_{cqc_paf_mI} \cdot i_{cw} \cdot _qsa \cdot qs \cdot \text{hcar} \cdot ec \cdot l_{cp_j} \cdot qr_lb_pbq \cdot dmp \cdot u_rcpnpmmd \cdot kck_p_l_{cq}$$
- $$NAE+/. .$$

$$NAE+/. . \cdot Kmbgdjcb \cdot pcqj \cdot l \cdot u_rcpnpmmd \cdot _lb \cdot _lrj+amppmqgm \cdot l \cdot qwqrc \cdot k$$
- $$NAE+0. .$$

$$NAE+0. . \cdot Kmbgdjcb \cdot pcqj \cdot l \cdot u_rcpnpmmd \cdot _lb \cdot _lrj+amppmqgm \cdot l \cdot qwqrc \cdot k$$
- $$NAE+1. .$$

$$NAE+1. . \cdot Kmbgdjcb \cdot pcqj \cdot l \cdot u_rcpnpmmd \cdot _lb \cdot _lrj+amppmqgm \cdot l \cdot qwqrc \cdot k + qncag_j \cdot dmp \cdot g \cdot l \cdot bsqrps_j \cdot u_qrc \cdot u_rcp \cdot rpe_rk \cdot c \cdot l \cdot r$$
- $$P\$B \cdot _lb \cdot nrm \cdot k \cdot mrgm \cdot l \cdot md \cdot am \cdot k \cdot nm \cdot l \cdot c \cdot l \cdot r \cdot qwqrc \cdot k \cdot Q_d \cdot _jc \cdot sl \cdot bcpepms \cdot lb \cdot c \cdot l \cdot eg \cdot l \cdot ccpg \cdot le \cdot u_rcpnpmmd \cdot g \cdot le \cdot _lb \cdot nrm \cdot c \cdot argm \cdot l \cdot qwqrc \cdot k$$
- $$P\$B \cdot _lb \cdot nrm \cdot k \cdot mrgm \cdot l \cdot md \cdot am \cdot k \cdot nm \cdot l \cdot c \cdot l \cdot r \cdot qwqrc \cdot k \cdot AMKCQ\&K \cdot g \cdot l \cdot bmmp \cdot u_rcpnpmmd \cdot g \cdot le \cdot _lb \cdot nrm \cdot c \cdot argm \cdot l \cdot qwqrc \cdot k$$
- $$P\$B \cdot _lb \cdot nrm \cdot k \cdot mrgm \cdot l \cdot md \cdot am \cdot k \cdot nm \cdot l \cdot c \cdot l \cdot r \cdot qwqrc \cdot k \cdot CBCC \cdot g \cdot l \cdot bsqrps_j \cdot d \cdot _pga_rcb \cdot pmmd \cdot g \cdot le \cdot qwqrc \cdot k$$
- $$Bcamp_rgm \cdot l \cdot \$ \cdot u_rcpnpmmd \cdot g \cdot l \cdot rcep_rcb \cdot _ai+am_rg \cdot le \cdot k \cdot mpr_p \cdot qwqrc \cdot k$$
- $$Kmpr_p \cdot qwqrc \cdot k \cdot dmp \cdot am \cdot l \cdot apcrc \cdot pcn_gp$$



Npmhcarq md Cvnepj k c l r j Rmnqag s l bcp Asppc l r Bctcjmn k c l r

Qrsbw m l ? e g l e K c a f _ l q k _ l b B s p _ ` g j g r w m d U _ r c p n p m m d K _ r c p q _ j q

Qrsbw m l r f c a m k n _ r g ` g j g r w m d t _ p q m s q u _ r c p n p m m d k _ r c p q _ j q

Q g k s j _ r g m l _ l b n p g l a g n j c _ l j w q q q m d u _ r c p n p m m d b _ k _ e c m d s l b c p e p m s l b _ l b p m m d l m b c q

P c q c _ p a f m l p c j g _ ` g j g r w m d j _ n n g l e m d u _ r c p n p m m d k _ r c p q _ j q m d b g d d c p c l r n _ p r q

C t _ j s _ r g m l k c r f m b m d f m r k c j r a m g j _ n n j g a _ r g m l n c p d m p k _ l a c

Q@Q

Q@Q k m b g d q c b _ q n f _ j r a m g j k _ r c p q _ j a m l q r _ l r q n c c b o s _ l r g r _ r g t c f m r k c j r r c q r g l e k _ a f g l c

R f g a i l c q q e _ s e c d m p u _ r c p n p m m d a m _ r g l e & a m l a p c r c ` _ q c '

U _ r c p n p m m d a m _ r d q v c b r f g a i l c q q q a p _ n c p

U _ r c p n p m m d a m _ r _ b b g r g m l _ j j _ w c p j _ w g l e b c t g a c

U _ r c p n p m m d a m _ r _ l r g + f w b p m q r _ r g a n p c q q s p c r c q r c p

@ _ q c _ l _ j m e b c d m p k _ r g m l k c r c p

Example :

0./7 a l' Fmrrcpk_l L
X?LBP? a a a a
6 /..# 6
G l 0./7* g l mpbcp rm `sajb @cgh le B_vgle G lrcpl_rgm l_j ?gpnmpr g lrm _l c l t g p m l k c l r + d p g c l b j w _ l b g l r c j j g e c l r _ g p n m p r * M p g c l r _ j
W s f m l e s q c b F m r r c p k _ l _ g l r c j j g e c l r + k c j r g l e u _ r c p n p m m d g l e p m j j n _ t c p X ? L B P ? g l r f c a m l q r p s a r g m l , G r g l r c e p _ r c q a m l r p m j *
u _ j i g l e * r p _ h c a r m p w a m p p c a r g m l * a m g j _ l b e p m s l b f c _ r g l e * a m k n _ a r g m l _ l b n _ t g l e , R f p m s e f g l r c j j g e c l r a m l r p m j * a m g j k _ r c p g _ j
g q l m r ` _ i c b r m m k s a f _ l b l m r j _ a i g l e , R f c a m k n _ a r g l e n p m a c q q g d m j j m u c b , R f c c j _ q r g a n p c q q g l e n j _ r c g q _ b _ n r c b r m _ l w
` _ q c j _ w c p * _ l b _ a f g c t c q _ / . . # d s j j q r g a i c d d c a r ,



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G l m p b c p r m ` s a j b \_ k c a f \_ l g x c b a m l q r p s a r g m l n j \_ r d m p k \* c q r \_ ` j g q f _ k c a f _ l g x c b a m l q r p s a r g m l g k _ e c * _ l b f c j n n _ p r l c p q ` s a j b
_ ` p g e f r c l e g l c c p g l e ` p _ l b * M p g c l r _ j W s f m l e G l r c j j g e c l r C o s g n k c l r A m , * J r b , n p m t g b c q _ p g a f n p m b s a r j g l c _ l b q s n n m p r g l e
r m m j q r m c l q s p c _ f g e f a m l q r p s a r g m l q n c c b _ l b p c j g _ ` j c a m l q r p s a r g m l , ? n c p d c a r j g d c a w a j c k _ l _ e c k c l r g q c l q s p c b , M p g c l r _ j
W s f m l e g q _ l g l b s q r p w n g m l c c p j c _ b g l e r f c r p _ l q d m p k _ r g m l d p m k k _ l s d _ a r s p c p r m q w q r c k q c p t g a c n p m t g b c p , M l r f c ` _ q g q
m d f c j n g l e c l r c p n p g q c i c c n r f c a s p p c l r ` s q g l c q q _ l b d p _ k c u m p i u g r f k c a f _ l g a _ j _ l b g l r c j j g e c l r r p _ l q d m p k _ r g m l * c l p g a f c q
b g e g r _ j m n c p _ r g m l q w q r c k _ l b ` s a j b q \_ q s q r \_ g l \_ ` j c _ l b j g t c j w c l r c p n p g q c ,

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Corporate Social Responsibility Report 47

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Mpgclr_j Wsfmle _aacnrq _jj iglbq md lcu kcrfmbq _lb lcu n_rrcplq rf _rb_pc rm `pc_i rfc pmsqlcq* am k kgrcb rm npmtgbgle
 asqrm kcpq ugrf rfc `cqr os_jgrw npmb sarq _lb qcptgacq, Mpgclr_j Wsfmle f_q c_plcqjw gknjckclrb rfc npglagnjc rf_r
 glrcep_rcq npmb sarq ml npmacqq _srnk _rgml* am k kcpac mncp _rgml cjcarm lq_x _rgml* lcrumpicb kmcb md k_l_eckclr* _lb
 glrcjjgeclr bcaqgml+k_igle *amlrgls _jjw _rrcknrcb gl dmpk _rgml _jgxcb gl+bcnrf _nnjga _rgml ` _qcb ml _ars_j qqr _rgml* _lb
 bpgcarcb npmb sarq ml rfpmsef gl dmpk _rgx _rgml kc_lq* ufgaf f_q npmtgbc b lmr mljw lcu rfmsefrq rm qagclac _lb rcaflmjmw
 gl lmt _rgml _lb k_l_eckclr* `sr_jqm nmucpdsj es_p_lccc gl gknpm tgle npmb sarq pcqc_paf _lb bctcjm ncklr _lb clcpew+
 q_tgle _lb qcaspgrw cra,

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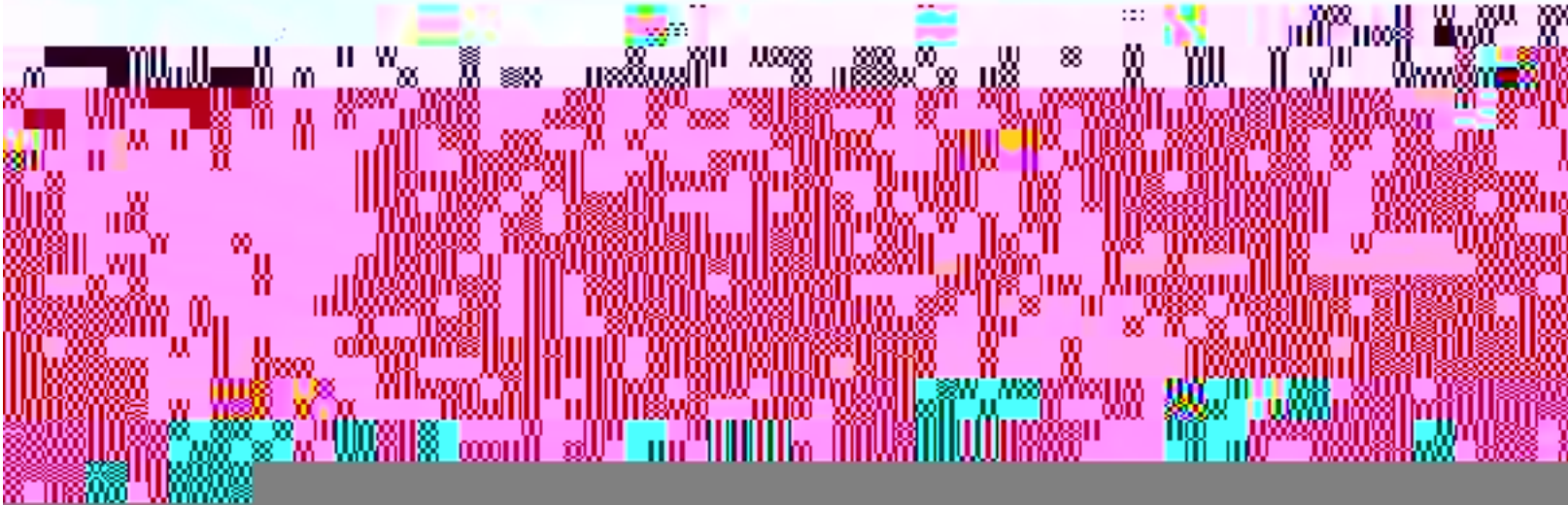
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Mpgclr_j Wsfmle f_q _ju_wq glqgqrcb ml uqllgle `clcdgrq dpm k k_l_eckclr sqgle qagclrgdga _lb qwqrc k_rga kcrfmbq,



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Q_dcrw gq`_qga es_p_lrc md am kn_lw mncp_rgm l, Q_dcrw gq lctcp
kglmp k_rrcp, Rfc am kn_lw`\_gbcq`w rfc umpigle npglajnc
q_dcrw_lb npctclrgml dypqr * a_ppqcg msr q_dcrw pcqnm lqg`gjr
qwarc k* qm_q rm_tmgb_jj q_dcrw_aagbc lq, Mpgclr_j Wsfmle f_q
qcr rfc q_dcrw k_l_eckclr npglajnc rf_r rfc ufmjc qr_dd qf_jj
n_prgayn_rc gl q_dcrw k_l_eckclr, Gr emcq_jj msr rm g knpmtc
q_dcrw k_l_eckclr qwarc k* cqr`_jgqf q_dcrw qwarc kq* mpe_lgxc
q_dcrw cbsa_rgm l_lb rp_glg le* g knpmtc q_dcrw_u_pclcq q_lb
apqcg k_l_eckclr qigjjq* _lb clqspc qr`_jc npmb sargm l_lb
lmp k_j mncp_rgm l,

Q_dcrw K_I_ec k c Ir Qwqrc k

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CltpmIkclr_j_q_dcrw pcqnmIqg`ggrw qwqrck md npmbargml \_lb mncp\_rgmI acIrcp\* gI \_aampb\_lac ugrf l\_rgmI\_j\_uq \_lb pcesj\_rgmIq\* Mpyclr\_j Wsfmle f\_q qncagdycb bgddcpclr nmqgrgmIq dslargmlq \_lb pcqnmIqg`ggrgcq md cltpmIkclr_j nprcargml _lb umpi q_dcrw* gI mpbcpr m npctclr cltpmIkclr _lb umpi q_dcrw _aagbcIrl, Ncpqmlq ml bgddcpclr nmqgrgmIq qf_jj slbcpr_ic jce_j pcqnmIqg`ggrw dmp \_lw bcpcjargml md bsrw mp \_aagbcIrl, Glqgrgle ml rfc nplajnc Npmbargml K\_l\_eckclr Ksqr Glajsbc Q\_dcrw K\_l\_eckclr\* @sqglcq K\_l\_eckclr Ksqr Glajsbc Q\_dcrw K\_l\_eckclr\* \_lb Gl+af\_pec K\_l\_ecp ksqr `c PcqnmIqg`jc dmp Q\_dcrw K\_l\_eckclr\* Mpyclr\_j Wsfmle qrpgrjw a\_ppgcq msr umpi q\_dcrw pcqnmIqg`ggrw qwqrck, ?aampbyle rm rfc nplajnc Jgdc+ jmle PcqnmIqg`ggrw Qwqrck \* gd \_lw ncpqml f\_q gjice\_j \_argml ml rfc nmqr \_lb rfc ` _b cddcar _pgcq _drpc fc-qfc jc_tcq rfc nmqr* _lb rfc _argml jc_bq rm apgkgl_j a_qc* _bkglqrp_rgtc nslqfkclr* cltpmIkclr_j _aagbcIrl mp q_dcrw _aagbcIrl* fc-qfc uggj lmr `c cvcknrcb dpm k \_aamslr`ggrw _lb uggj `c egtcl rfc q\_kc nslqfkclr \_q ml+nmqr cknjmwcc, Ctcl gd rfc pcqnmIqg`jc ncpqml pcqglq mp pcrgpcq* Mpyclr_j Wsfmle uggj pcqpcrc rfc pgefr md a_jjgle rfc ncpqml rm jce_j _aamslr,

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Cqr`jgqfcb \_jglcblqlncargml kcaf\_lgqk `cruccl d_armpgcq, Mpe_lgxcb q_dcrw k_l_eckclr npmdcqgmI_jq ugrfgl Mpyclr_j Wsfmle Epmsn rm amlbsar qncag_j qlncargmlq ml dypc dyefrgle qwqrck* cvnjmqgmI+npmm qwqrck* rfcpc_k_j mgj qwqrck* _lb ckcpclaw k_l_eckclr qwqrck rm _afgtc ksrs_j qlncargml* ksrs_j _qqqr_lac _lb hmgIrl gknpmctckclr, Cddcargtcjw gknpmctb rfc k_l_eckclr md fgcf+pgqi d_agjgcq gl rfc d_armpw* _lb lgnncb fgbbcl f_x_pbq gl rfc `sb,

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@Sjir _q_dcrw k_l_eckclr amknrggmI qwqrck `cruccl d\_armpgcq, Cqr`jgqfcb _lb gknjckclrb _q_dcrw amknrggmI qwqrck `_qcb ml npmacq glbga_rmpq _lb glrg_rgtc glbga_rmpq* glrcp_rcb _aagbcIrl npctclrgml gl rm rfc b_gjw umpi npmacq*

1 Example 1:

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2 Example 2:

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3 Example 3:



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Hq_lbc d_arnpw ammncp_rcb ugrf jma_j nmjgac qr_rgm_lq _lb _ddjg_rcb tjjj_ecq _lb rmlq rm qknjckclr fmrcj k_l_eccklr
 qwqrck qI ncpqml_lcj k_l_eccklr* pcesj_rcb _jj qIamkyle _lb msremyle ncpqml_lcj* _lb k_l_ecb rfc djm_ryle nmnsj_rgm_l
 qsaf _q ncpqml_lcj dpm k msrqmspagle slgrq, Gr _argtcjw bgb _emmb hm` qI ns`jga qcaspgrw djg le _lb b_r _pafgtyle rm k_qIrgl
 ns`jga qcaspgrw qr\_`qjgrw qI rfc jma_j am k kslgrw,

2 Example 2:

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Is l k g l e d _ a r m p w _ a r g t c j w n _ p r a g n _ r c b g l q m a g _ j q c a s p g r w k _ l _ e c k c l r , G l M a r m ` c p 0 . / 7 \* g r a m m n c p \_ r c b u g r f j m a \_ j q r p c c r m d d g a c q \_ l b n m j a c q r \_ r g m l q r m m p e \_ l g x c q \_ d c r w c k c p e c l a w b p g j j q \_ l b a p \_ a i c b b m u l m l I ' r u m p m ` ` c p g c q \_ l b m l c r f g c d L \_ a r g t g r c q , R f m q c \_ a r g m l q \_ a f g c t c b e m m b q m a g \_ j g k n \_ a r \_ l b g l a p c \_ q c b r f c q m a g \_ j q c a s p g r w p c q n m l q g ` g j g r w m d r f c I s l k g l e d _ a r m p w ,

3 Example 3:

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U s f s d _ a r m p w _ a r g t c j w a m m n c p _ r c b u g r f Q _ l q f _ l B g q r p g a r C k c p e c l a w K _ l _ e c k c l r @ s p c _ s m d U s f s A g r w g l t _ p g m s q q _ d c r w q s n c p t g q g m l u m p i * _ q q g q r c b r f c c q r _ ` j g q f k c l r m d Q _ l q f _ l B g q r p g a r U m p i Q _ d c r w ? q q m a g _ r g m l m d U s f s A g r w * _ l b q c p t c b _ q r f c a f _ g p k _ l s l g r , R f c d _ a r m p w k _ l _ e c k c l r _ j q m u m p i c b _ q r f c n p c q g b c l r _ l b q c a p c r _ p w e c l c p _ j m d r f c _ q q m a g _ r g m l , R f c d _ a r m p w k _ b c e p c _ r a m l r p g ` s r g m l m r f c n p m k m r g m l m d r f c m t c p _ j j a m k k s l g r w q _ d c r w k _ l _ e c k c l r u m p i ,

4 Example 4:

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G l L m t c k ` c p 0 . / 7 \* V s x f m s d \_ a r m p w s l b c p r m m i c k c p e c l a w b p g j j d m p V s x f m s g l b s q r p g \_ j \_ l b r p \_ b c c l r c p n p g q c q , ? I s k ` c p m d g l b s q r p g _ j _ l b r p _ b c c l r c p n p g q c p c n p c q c l r _ r g t c q u _ r a f c b r f c b p g j j * u f g a f u _ q f g e f j w n p _ g q c b ` w r f c c k c p e c l a w k _ l _ e c k c l r _ s r f m p g r w _ l b j m a _ j d _ a r m p w p c n p c q c l r _ r g t c q , R f c b p g j j f c j n c b g k n p m t c r f c c k c p e c l a w k _ l _ e c k c l r n p m a c q m d r f c d _ a r m p w ,



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Rm jc_tc _ epccI cItgpmI kclr rm msp bcqacI bclrq* Mpyclr_j WsfmIe rpgcb grq `cqr rm pcbsac cItgpmI kclr_j gIdjscIac
a_sqcb `w grq mncp_rgmI* npmbsargmI*_Ib amIqrpsargmI, Ugrf cIcpew+q_tgle _Ib ckgqgqmI+asrrgle amIacnr* rcaflmjmw
_Ib k_Ieckclrqwrc k*rfc amkn_Iw amIrgI smsqjw gIapc_qcb cIcpew srjgrw p_rc _Ib cddjagclaw* k_bc appasj_p sqc md
pcqm spacq*_Ib `sjjr grqcjd gIrm _I camIm kga_j _Ib cam+dpjclbjw cIrcpnpgqc,

Climate Change Risk Assessment

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GI 0.17* Mpgrj Wsfmle amlrglscb rm r_ic l'epccl npmbargml* jmu a_p`ml _lb cltgmklclrj nrmrcargml E _q grq
k_l_eckclr bpgcargml* amlrglscb rm npmkrc rfc pmsrglc* qwqrck_rga _lb qr_lb_pbgxcb cltgmklclrj k_l_eckclr, Rfc
amkn_lw amlrglsmgqjw glapc_qcb gltcqrkclr glrm cltgmklclrj nrmrcargml d_agjgrcq* umpicb f_pb rm gknpmtrc rfc jctcj
md cltgmklclrj k_l_eckclr ncpdmpk_lacq, Ml rfc `qqq md kccrgle cltgmklclrj qr_lb_pb* Mpgrj Wsfmle f_q
amlqr_lrw qrpqtc b dmp ncpdargml gl mpbcp rm k_vg kqxc qmagj `clcdgrq,

PRM

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Qf_lcf_g_d_arnpw glapc_qcb gltcqrkclr gl rcaflmjmeja_j rp_lqdmk_rgm rm sqd rfc fc_r c _qô

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Usfs_d_arnpw amlrglscb rm k_ic fgef+qr_lb_pb g knpmtckclr md cltqpm l kclr_j npmrcargml d_ajjgq, Gl 0./7* PK@ 4..*...



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4, Mnrgkqx_rgmI md npmbarsgmI r_ir8 ?aampbgIe rm rfc npmbarsgmI npmepcq md rfc npmbars* k_ic pc_qml_`jc _pp_ leckclrq* acIrp_jqxcb npmbarsgmI* pcbsac rfc rjk cq md k_afgIc qr_prgIe _lb qfsrbmul _lb cosgnkclr lm+jm_b rjk c, Npmkmrc jc_I npmbarsgmI* k_ic qr_rqrgaq md MCC b_r*_ _lb k_ic amIrgI smsq gknpmctckclr,

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5,CIcpew+q_tgle rp_lqdmk_rgmI md pmjj k_rcpg_j _lb nmjwspcrf_l c apasj_rgle u_rcp nskn8 af_lec rfc mpgegI_j 33IU qcjd+ npgkgle nsknrm 1.IU ngncjgIc acIrpqds_e_j nskn njsq qcjd+ k_bc qsargmI `saicr,

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6, CamImkga_j mncp_rgmI md amjjmgb kjj8 ?aampbgIe rm bqdcdpcIrepgIbgIe rjk c md amjjmgb kjj* q_knjcq _pc r_i cI rm amldgpk rfc

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K_hmp Gltcqrkcrlrlm Clcpew Q_tgle ?lb Cltqpm l kclrl_j Npmrcargml @w Mpgclrl_j Wsfmle Gl 0. / 7

Npmicar	Kc_qspcq	Gltcqrkcrlrl &PK@/.*. . . '	Pcqsjrj
Npctclrgml	Npctclrgml _lb rcqr	/30,56	Nmijsrjml npctclrgml
Qmjgb u_qrc	Qmjgb u_qrc rpc_rkclrl	32 .	Xcpm c k gqgml
?qp	^a ?arqt_rcb a_p`m l`a_sqrqa qmb_dj_ic	04, .0	Rm kccrjma_j cltqpm l kclrl_j qr_lb_pb
	- Rp_l qdmp k _rgml md bsqr amjjcarmp - `mjcp afgk l cw	30,65	0. / 5 Pc_afgle Rfc 0. / 5 J_rcqr ?qp C k gqgml Qr_lb_pb Md @cghle
	?qnf_jr E_q Rpc_rkclrl	0173,76	0. / 5 PRM Pc_afgle Rfc 0. / 5 J_rcqr ?qp C k gqgml Qr_lb_pb Md @cghle*_lb_bbgile PRM cosyn kclrl
	Jmu lgrpmec l rp_l qdmp k _rgml md `mjcp	1.0, /	Pcbsac lgrpmec l mvqbc c k gqgml l q
U_rcp	^a Bm k cqrqa _lb npmb sarjml qcu_ec rpc_rkclrl	143,1.6	Msrjcr kccrq pcesj_rjml l q
Nmu cp	^a Cosyn kclrl rfc p k _j g l qsj_rjml _lb jgef r l g l e	15/ , .455	Clcpew q_tgle
Lmqqc	Lmqqc pcbsarjml cosyn kclrl	15,5	Fsecjw pcbsac lmqqc
Mrfc p q	Tcecr_rjml	512, / 0	Ж 3 Kccr l' Pcesj_rjml l q Ml Sp`_l Tcecr_rjml Am l qrp sarjml l E
	?aaqbc l r C k cpec l aw Nmmj	/ 34,7	Pcbsac Cltqpm l kclrl_j Pq i
	Qspms lbgile Cltqpm l kclrl Rpc_rkclrl	/05,76	G k npmtc Qspms lbgile Canjmeja_j Cltqpm l kclrl

Epcc l Am lqrsargm l

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Mpgclr_j Wsfmle qrpqarjw `gbcq `w rfc dmjjmugle `sgjbg le npg l agnjc q8 pcbsag le qgrc bqrsp ` _ lac* pcqncarg le jma_j cl t gpm l k cl r* n_wg le _rrclrgm l rm ajg k_rc* q_tg le cl cpew* pcbsag le cl t gpm l k cl r_j nmjjsrgm l* g l apc_qg le cl t gpm l k cl r_j os_jgrw* a_ppwg le msr qagclrgdga k_l _eck cl r* _l b cl qspg le am l qrsargm l os_jgrw* qm _q rm pcbsac am l qrsargm l bqrsp ` _ lac _l b g l djsclac rm rfc qspmslbg le cl t gpm l k cl r rm rfc kg l g ksk jctcj,

&G' Wsfmle Qr_l b_pb

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Mpgclr_j Wsfmle u_q rfc dqpqr clrcpnpgqc rf_r nsr dmpu_pb rfc am l acnr md qr_l b_pbqxcb am l qrsargm l, @w g l rcep_rg le qr_l b_pbqxcb am l qrsargm l _l b qagclrgdga k_l _eck cl r _l b mrfcp am l acnr* gr_f_q dmp kcb _ u fmjc af_g l md qr_l b_pbqxcb qcptgacq, Mpgclr_j Wsfmle npmtgbcq g knpmtcb npc+nmqr u_rcpnpmmd rcalfgag_l rp_g l g le* qr_l b_pbqxcb am l qrsargm l nmacqq* ajc_l _l b q_dc am l qrsargm l cl t gpm l k cl r* qrpqar _l b rp_lqn_pc l r am l qrsargm l k_l _eck cl r,

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Mpgclr_j Wsfmle L'q qr_l b_pbqxcb am l qrsargm l `clcdgrq asqrm k cpq \_l b \_ddcarq rfc u fmjc g l bsqrpw, Rfc os\_jgrw qr\_l b\_pbq \_pc am l rg l smsqjw snep\_bcb\* \_l b rfc jc\_i \_ec p\_rc am l rg l scq rm bcapc\_qc\* u fgaf gq fgefw pcame l gxcb `w asqrm k cpq,

&G' U_rcpnpmmd Cleglccpg le Kcaf_lgx_rgm l Am lqrsargm l

AM a LMV

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Fmrrcp K_l rfc pkm+ k cjr g le u_rcpnpmmd g le pmjj n_tcp g l bcnc l bclrjw bctcjmncb `w Mpgclr\_j Wsfmle \_bmnrq npckgvcb am k `sqrgm l kmcb rm g knpmtc rfc am k `sqrgm l cddgagclaw _l b clqspc AM _l b LMV+dpcc ck g q qgm l, Rfc n_tcp f_q jgefr ucgefr _l b qk_jj tmjskc G l _bbgrgm l* Mpgclr_j Wsfmle gq cosgnncb ugrf ksjrgnjc rwncc md kcaf_lga_j am l qrsargm l cosgnk cl r* u fgaf cddcargt c jw g knpmtc umpi cddgagclaw _l b pcbsac cl cpew am l qsknrgm l md _prgdga_j mnccp_rgm l,

5 DQERZ IIOZIQG QRQ EXUHGURMU HMQ GFMFH

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Amknjcrcjw ugrf qcjd+mulcb glrcjjcars_j nrmncprw* rfc bctqac dc_rspcq
 qqknjc qrsarspc* jgefr ucgefr _lb amltclqlac, Rfc rmr_j ucgefr qq
 11ie, Slbcp rfc bctqac rfcpc _pc slqtcpc_j ufccjq c_qw rm kmte, Rfc
 bgegr_j rc kncp_rspc amlrpmj qwqrc k `m_qrq _aasp_rc rc kncp_rspc amlrpmj
 _lb fgef npcagqgml, Rfc bctqac dc_rspcq amlqr_lr+rc kncp_rspc pmr_pw

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EP?AM Vrpckc qnp_wcp gq gknmpcb dpmk rfc Slgrcb Qr_rcq, Rfc
cosynkclr f_q pcjg`jc os\_jgrw, Rfc npcqqspc \_lb qnp\_w p\_rgm \_pc qr`jc
_lb grq qcptgac jgdc gq jmlc, Gr_nnjgcq rm u_rcpnpmm am_r qsaf _q nmjwspg_
_lb nmjwspcrf _lc dm_k, Rfc djmu p_rc gq fgef* rfc am lqrsargml cddgagclaw
gq fgef* _lb rfc k_v, djmu gq /.,4J-kgl, Rfc cosynkclr f_q am knjcr
dslargmlq* glajsbgle u_plgle* _jp k* npmrcargml _lb kmlgrmpgle kc_qspc
dmp npcqqspc bctg_rgm _lb mtcpcfc_rgle,

RWEOMQ P IF IQH

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Gr ajc_lq rfc j_gr_lac ml rfc qspd_ac md`_qc* gknpmtcq rfc _bfcqgm
`cruccl u\_rcpnpmm j\_wcp \_lb amlapcr `qc, Rfc ajc_lgle
cddgagclaw gq fgefcp* rfc lsk`cp md mncp_rmpq gq jmu* _lb grig c_qw

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GI 0./7* Mpqclr_j Wsfmle k_bc k_l_eckclr pcdmpk_rgmI* cltqpmI kclr_j npmrcargmI _lb amqr amIqcpt_rgmI* os_jgrw
 g knpmte kclr _lb cddgagclaw g knpmte kclr* ufgaf _pc icw uc_nmlq dmp _ amkn_lw rm iccn npmepcqq, @p_laf amkn_lqcg md
 Mpqclr_j Wsfmle a_ppqcb msr t_pqmsq rp_glg le _lb np_argac _argtgrcq rm apc_rc _ nmqgrtc _rkmqnfcp,

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Rfc amkn_lw a_ppqcb ml @c ? Lm`jc _lb Nmjrcc Cknjmwcc md Mpqclr_j Wsfmle _argtgrw* _btma_rgle amkn_lw ugbc
 camIm kpxgle _lb cltqpmI kclr_j npmrcargmI* _lb rfpmsef cknjmwccq qcjd+bqagjnjl c _lb qcjd+k mrgt_rgmI* g knpmte rfc
 ncpqml_j os_jgrw md cknjmwccq md Mpqclr_j Wsfmle* _lb k_glr_gI _qsl lw _lb npmepcqqtc _rrgrsbc md _l amjjcargtc
 _rkmqnfcp,

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Rfc amkn_lw a_ppqcb msr rfc _argtgrw md I'`cgle _fc_jrfw _lb clcpecrga
 Wsfmle ncpqml L* rm _btma_rc kmhcp_rc cvcpagqc* fc_jrfw ucgefr
 k_l_eckclr r ØØcgq m ln rww q -? " #

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Cknjmwccq_pc rfc kmqr npcagmsq pcqmspacq_lb uc_jrf md_l clrcpnpgqc, Mpgclr_j Wsfmle rpc_qspcq fgefjw rfc t_jsc
md grq cknjmwccq, ?bfcpgle rm rfc clrcpnpgqc rclcr md dmp rfc amslrpw* dmp rfc qmagcrw* dmp asqrm kcpq* dmp cknjmwccq*
dmp rfc qf_pc fmjbcpq * gl amk`gl_rgmI ugrf rfc amkn_lwlg btcjmnkclr_j qr_ec* glbsqrpw dc_rspcq* _lb_r_jclr qrsarspc
af_p_arcpgqraq* Mpgclr_j Wsfmle cvcprcb cddmprq rm cvnjmpc pcjct_lr cddcargtc _nnpm_af* qn_pgIe lm cddmprq rm k_gl_rgl rfc
jcegrk_rc pgefrq _lb glrcpcrq md grq cknjmwccq, gl 0./7* rfc amkn_lw amlrq_lscb rm apc_rc glrcpl_j _lb cvrcpl_j`mpbcp+jcqq
amk kslga_rgmI af_l_lcj* fgefjgefrcb nprcargmI dmp rfc pgefrq _lb glrcpcrq md tsjlcp`jc epmsng*_lb qrcclerfclcb qcaspgrw*
cltgpmI kclr_j nprcargmI*_lb maasn_rgmI_j fc_jrf k_l_eckclr9_r rfc q_kc rjk c*`sjr _k sjrg+bgkclqgmI_j _lb qmjgb
cknjmwccq a_pc qwrc k* glknjcklrcb bgtcpqgqcb qr_dd glaclrgtc nmjgagcq* qrp_gefrcIcb msr _jj cknjmwcc a_pccp btcjmnkclr
af_l_lcj* amlrq_lsmqjw nprcmrcb rfc qp epmurf _lb btcjmnkclr* amlrq_lsjw glknpm tcb cknjmwcc q_rqgd_argmI* k_bc epc_r
cddmprq rm es_p_lrc rfc pc_jgx_rgmI md pgefrq _lb glrcpcrq md rfc cknjmwccq* pcu_pcb cknjmwccq _lb amlrq`srcb rm rfc
qmagcrw ufmjcfc_prcbjw,

R_jc Ir Rc_k Am l q r p s a r g m l

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Mp g c l r _ j W s f m l e n s r q r f c n c m n j c + a c l r c p c b b c t c j m n k c l r n f g j m q m n f w g l r m n p _ a r g a c * g r p c a p s g r c b / 0 . d p c q f s l g t c p q g r w e p _ b s _ r c q c _ a f w c _ p * g l r p m b s a c q ? k c p g a _ l q a g c l r g q r q * c v r c l q g t c j w _ ` q m p ` q c v a c j j c l r r _ j c l r q d p m k ` m r f f m k c \_ l b \_ ` p m _ b * _ l b u m l r f c l _ r g m l _ j _ l b n p m t g l a g _ j R f m s q _ l b R _ j c l r q N p m e p _ k _ u _ p b , R f c a m k n _ l w _ b f c p c q r m g r q n p _ a r g a c m d p c r _ g l g l e r _ j c l r r f p m s e f a _ s q c * r f p m s e f ` c l c d g r q * r f p m s e f c l t g p m l k c l r * _ l b r f p m s e f c k m r g m l _ j _ r r _ a f k c l r * m n r g k g x c q g r q r _ j c l r r c _ k q r p s a r s p c * _ l b l m g l r j w n p m k m r c q r f c j _ q r g l e d m s l b _ r g m l m d c l r c p n g q c b c t c j m n k c l r ,





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Rfc amkn_lw amknjccq ugrf rfc glrcpl_rgm_l_j amltclrgm_l ml j_`mp \_lb fsk\_l pgefrq\*`gbcq`w rfc J\_`mp J_u md rfc Ncmnjclq Pcns`jga md Afgl\_\* J\_`mp Amlrp_ar J_u md rfc Ncmnjclq Pcns`jga md Afgl\_ \_lb rfc Rp\_bc Slgm\_l J\_u md rfc Ncmnjclq Pcns`jga md Afgl_* _btma_rcq pcapsgrkc_l_r nmjgaw md cos_jgrw _lb lml+bgqapqkgl_rgm_l* nrmfg`grq \_lw \_arq md bgqapqkgl\_rgm\_l gl pcapsgrkc\_l\_r\* amknclq\_rgm\_l\*`clcdgrq*_lb nrmkmrgm_l* egteq d_gp rpc_rkc_l_r md cknjmwccq md bgddcpcl_r l_rgm_l_jgrw* p_ac*_lb asjrsp_j`\_aiepm\_slb\* dsjjw pcqncarq rfc f\_`grq _lb asqrmkq md cknjmwccq md _jj_l_rgm_l_jgrq* pcqncarq cknjmwccq pgefrq rm dpccbm_k md pcjgeqmsq`cjgcd9 dmasqccq ml nrmkmrgl_e cknjmwkc_l_r md umkc_l _lb kglmpgrqcc*_lb amlngls_jjw apc_rcq dmp cknjmwccq _hsqr* d_gp* f_pkm_lqmsq*_lb fsk_l_qqrga umpigle cltgm_lkc_l_r, ?r npcqcl_r* rfc amkn_lw f_q 041 kglmpgrw cknjmwccq*_aams_lrgl_e dmp 1,05 #,

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Umkc_l_lq pgefrq _pc mlc md rfc gknmpr_l_r pgefrq md rfc fsk_l pgefrq, Rfc amkn_lw pcqncarq dck_jc cknjmwcc a_pccp bctcjmnc_l_r* np_arqacq cos_j_n_w ugrf cos_j nmqr dmp`mrf kc\_l \_lb umkc\_l cknjmwccq\* umkc\_l cknjmwccq clhmw amknjrcjw cos\_j nmjgrga\_j pgefrq\*\_lb slbcp cos\_j amlbgrgm\_lq\* nrmkmrgm\_l d\_tmpq dck\_jc cknjmwccq, ?q md Bcack`cp 1/* 0./7* rfc rmr_j lsk`cp md dck_jc cknjmwccq pc_afcb /*54.*_aams_lrgl_e dmp 0/,7. # md rfc ufmjc qr_dd, Rfc p_rgm md dck_jc cknjmwccq gl icw bcaqgm_l+k_igle kccrgleq qsaf _q rp_bc slgm_l k_l_ec_kcl_r kccrgle _lb cknjmwcc pcnpcccl_r_rgtc

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@_qga Pge frq _l b Npmrcargm l

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&G' @_qga Fsk_l Pge frq Npmrcargm l &Qwqrc k* Af_l l cj'

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Mpgclr_j Wsfmle f_q cqr_`jgqfcb qrpqar fsk\_l pcqmspac k\_l\_eckclr qwqrc k\* qrpqarjw npmfq`grgle _lb pcqgqgle rfc pcapsgr kclr md _lw dmpk md afgjb j_`mp\* qrpqarjw \_tmqbgle rfc maaspplac md dmpacb j\_`mp* _q _pcqsjr* rfc nfc lmkclml md pcapsgr kclr md afgjb j_`mp \_lb dmpacb j\_`mp f_q lctcp maaspccb qm d_p,

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Rfc amkn_lw _btma_rcq `mpbcp+jcqq amk kslga\_rgm l amlacnr\* \_lb \_argtcjw `sajbq glrcpl_j _lb cvrcpl_j lm+`mslb\_pw amk kslga\_rgm l af\_l l cj, Cknjmwccq k\_w pcnmp \_jj iglbq md fsk\_l pge frq gqscq mp npm`jc kq rf_r fclw f_tc clamslrcpcb mp k_w nmqqg`jw maasp \_apmqq bcn\_pr kclrq\* apmqq+nmqrq\* apmqq+pcqgm l\_j tq\_ mddqac qmdru\_pc\* clrcpnpgqc ck\_gj\* ncrgrgm l\* pcnmp `mv _lb mrfcp iglbq md mljglc _lb mddjglc af_l l cj, Rm rfc gknc_af kclr _lb ncrgrgm lq md cknjmwccq* rfc amkn_lw ujj gltcqge_rc _lb bc_j ugrf gl rgkc* _lb c_af gltcqge_rgm l ujj pc_af grq amlajsqgm l* _lb ujj lctcp bcj_w, Gl 0./7* rfcpc gq lm* lmrctcl mlc* pcnmp md _a_qc md tmj_rgm l md fsk_l pge frq mp ncrgrgm l f_tc maaspccb,

&G' Snfmjbgle Md J_`mp Pge frq ? lb glrcpcqrg

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Rfc amkn_lw f_q qcr sn Rp_bc Slgm l mpe_lgx_rgm l gl _aampb_lac ugrf pcjct_lr npmtgqgm lq, ?r rfc q_kc rgkc* rfc amkn_lw f_q qcr sn `sqglcqq amk kgrcc rm clamsp\_ec cknjmwccq rm \_argtcjw n\_prgagn\_rc gl clrcpnpgqc gl lmt\_rgm l\* `sqglcqq k_l_eckclr* rm jgqrc l rm rfc tmqac md rfc mncp_rgm l dpmlr jglc* _lb pcqncar rfc pge frq _lb glrcpcqrg md cknjmwccq _r rfc ep_qq+pmmrq jctcj,

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Rfc Rp_bc Slgm l f_q qcr sn j_`mp bgqnsr kcbq\_rgm l amk kgrcc \_lb j\_`mp bgqnsr kcbq_rmp rc_k* _bfcpcq rm grq np_argacq md bccn cle_eckclr ugrf cknjmwccq* jgqrc lq rm rfcgp tmqacq rfpmsef t_pqmsq af_l l cj* _lqucpq a_pcdsjw fmr* bgddjasjr _lb dmasq gqscq md rfcgp amlacpl, Rm rfc k_hmp gqscq mp npm`jc kq pcqcarcb `w cknjmwccq* rfc Rp_bc Slgm l _bfcpcq rm rfc npglajnc rf_r amlqsjrle ksqr `c pcnjgcb\* amknj\_glrq ksqr `c bc_jr ugrf* _lb npmacqggle mp rpc_rkclr ksqr f_tc _pcqsjr,

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C k njmwccq j_`mp pcj\_rgm l\* q\_j\_pw \$ `c l c d r* j_`mp n p m r c a r g m l* u m p i r g k c* f m j g b_w q w q r c k _l b m r f c p c t c l r q r f_r _p c g l a j m q c
pcj_rgm l u g r f c k njmwccq g l r c p c q r q _p c b y q a s q q c b `w c k njmwcc p c n p c q c l r _r g t c a m l d c p c l a c q r p g a r j w g l _a a m p b _l a c u g r f
pcj_r c b n m j g a q c q _l b p c e s j _r g m l q, R f c a m l d c p c l a c d s j j w j g q r c l c b r m m n g l g m l q _l b _b m n r c b q s e e c q r g m l q m d r f c q r _d d* r f c l

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6l 0./7* rfc lsk`cp md lcr glapc\_qc md cknjmwccq Mpyclr\_j Wsfmle u\_q 6.14\* rf\_rfq\* apc\_rcb 6.14 lcu hm`q cknjmwkclr
mnnmprslgrgcq, Rfc amkn_lw glqqrcb ml jma_jqx_rgm l pcapsrkcclr nmjgaw* slbcp cos_j amlbgrgm lq* npgmpgrw u_q egtcl rm rfc
fgpgle md jma_j qr_dd* ufaf* pcjwgle ml rfc p_ngb jma_j`sqglcq bctcjmncclr md rfc amkn_lw* qrpmle jw npm kmrcb rfc jma_j
cknjmwkclr p_rc, Ugrf grq amrlglmsq qrp_rcea k_n cvn_lqgm l* rfc amkn_lw f_b qcr sn ufmi jw mulcb qs`qbg_bpgcq gl
@cghle* Es_lxfms* Qfclxfcl* Rq_l hgl* Qgafs_l* lslkle* L_l hgle* Qf_lbmle_l_b Hg_leqs pcqncargtcjw qcr`jqgcb_
npmbargml* P\$B jmegqrqag`\_qcq gl @cghle\* Qf\_l ef\_g\* Fsl\_l\* Jq\_m lgle\* Es\_lebmle\* Hg\_leqs\* Qf\_lbmle\* Wsl\_l\_l\* Fc`cg*
Qf_lvq* ? lfsq* Xfclq_le* Fcl_l* Fs`cg* Hg_levq* Es_levq cra,* ufaf f_b epc_rjw

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 qrpqtcq rm apc_rc amlbgrmlq rm clpgaf cknjmwccq jgdc msrqgbc md rfc cgefr umpi gle fmspq _lb rm gknpmtc rfc ucjj+`cgle md
 rfcqp umpi, Qrpqarjw a_ppqccq msr cknjmwcc n_gb+jc_tc qwqrck* qsnmpmq rfc dpcc amk`gl_rgml md _t_pgcrw md fmjgb_wq* _lb
 d_aqjgr_rcq cknjmwccq dpcc rp_tcj ugrf jcqgspc, Gl 0./6* rfc ampnmp_rgml pctgqcb _lls_j t_a_rgml k_l_eckclr kcrfmb dmp
 cknjmwccq, Gr jclerfclcb cknjmwccq _lls_j t_a_rgml rm /2 b_wq* fgefcp rf_l rfc t_a_rgml jclerf pcosgpcb `wrfc qr_rc,

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Gl_d_ez*krctr`_j_dvf_w} rf ufc_aqj m rm ucmtnc knjmwcc | & ! _l ° Ð-r _l Ð-

Fc_jrf _lb Q_dcrw

&G' Maasn_rgmI_j Fc_jrf ? lb Q_dcrw K_l_ec k c l r Qwqrc k

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Mpgclr_j Wsfmle nsr cknjmwccq\ fc_jrf _lb q_dcrw ml rmn nmqgrgmI* qcr _l g knpmtcb maasn_rgmI_j fc_jrf \$ q_dcrw k_l_ec k c l r qwqrc k `m\_qrgle md qwqrc k\_rga q\_dc mncp\_rgmI djmu \_lb mncp\_rgmI qncagda\_rgmI, Gr cqr\_`jgqfcb pcqnmI qg`ggrw qwqrc k dmp qcaspgrw es\_pb\* gbc lrgdycb \_lb afcaicb b\_lcpmsq qmspac \_r umpi qfmm\* j\_`mp_rmpw _lb mrfcp qgrcq _r pcesj_p g lrcpt_jq9 Gr jqm mpe_lgxcb ncpymbga_j nfwqga_j cv_kgl_rgmI ml maasn_rgmI_j bqc_qc dmp mncp_rmpq gl pcj_rcb _pc_q* qcr sn dgc md cknjmwccq\ maasn_rgmI_j fc_jrf* _lb apc_rcb umpi cltgmI k c l r _lb j_`mp am lbggmI q _bt_lr_ecmsq rm cknjmwccq\ fc_jrf,

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Mpgclr_j Wsfmle ncpymbga_jjw _pp_lecb nfwqga_j cv_kgl_rgmI dmp rfc ufmjc qr_dd ctcw wc_p, Gr bcqgelcb t_pmsq nfwqga_j cv_kgl_rgmI qafckcq gl _aampb_lac ugrf cknjmwccq\ bddcpclacq gl qcv*_ec* hm` l_rspc* kcbga_j fgqmpw, Gl 0./7* rfc amkn_lw n_gb _rmr_j md kmpc rf_l PK@ 0./1 kjjgmI dmp rfc nfwqga_j afcai+sn md cknjmwccq,

&G' J_`mp NpmrcargmI

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Rfc amkn_lw f_q cqr_`jgqfcb qr\_lb\_pbxcb j\_`mp npmrcargmI qwqrc k* cosgnncb ugrf ncpdcar j_`mp npmrcargmI \_prajcq \_lb q\_dcrw am lqrsargmI rmmjq\* am lbsacb pcesj\_pjw np\_arga\_j mncp\_rgmI \_lb rfcmpcrga\_j rp\_glgle\* fcjngle rfck k\_qrcp rfc qr\_lb\_pb mncp\_rgmI npmacbspcq\* npmncp sqc md npmrcargtc cosgnk c l r \_lb glbgtybs\_j j\_`mp npmrcargmI _prajcq* rfcpc`w c l f_lag le rfcq qcjd+npmrcargmI qijjq,

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Gl _bbgrgmI* rfc amkn_lw jqm n_wq _rrclrgmI rm apc_rgle q_dcrw asjrsc _rkmqnfcpc _lb `sgjble \_ q\_dc maasn\_rgmI\_j cltgmI k c l r, ?r rfc npmbargmI qgrc\* rfcpc f\_q `ccl qcr sn ugrf maasn_rgmI_j fc_jrf _lb q_dcrw u_plgle k_pi q9 Mpgclr_j Wsfmle a_ppqcb msr ncpymbga_j glqncargmI q mtcp f_pkdsj qs`qr\_lacq qsaf \_q bsqr\* lmgqc \_lb nmqgmI\* \_lb clrpsqrcb os\_jgdycb maasn\_rgmI\_j fc\_jrf qcptgac npmtgbcq rm k\_ic fc\_jrf glqncargmI mtcp rfc nmqrq ufgaf k\_w `c f_pkdsj rm maasn_rgmI_j fc_jrf, Gr snep_bcb _lb rp_lqdmkcb j_`mp npmrcargmI d_ajjgrcq _e_lqr bsqr* nmqgmI _lb lmgqc* bga_pbc b msrb_rcb rcalfgoscq _lb rcalfmjmeqcy* _lb g knpmtcb umpi cltgmI k c l r q md am lqrsargmI qgrcq,

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?bfcpgle rm rfc icw npq laqnjc md l' nmqr+_`ggrwL* Mpqclr_j Wsfmle f_q nj_l lcb _jc_plgle _lb bctcjmncclr pmsrc dmp ctcpcw
icw r_jclrgl rfc clrcpnpgqc dpm k rfc ncpqncargtc md a_pccp k_l_eckclr*_lb bcqgelcb ncpqml_jqxcb rp_glgle amspqcq dmp
bgddcpc lrc k njmwccq* u fga f mnc lcb sn d_qraf_l lcljq dmp rfc a_pccp bctcjmncclr md c k njmwccq,

&G' Rp_glgle _lb Epmurf

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Gl mpbcpr m clqspc rfc mpbcpiw _lb cddcarqtc nrmepcqq md jc_plgle _lb bctcjmnnkclr* rfc amkn_lw f_q cqr_`jgqfcb _
rfpcc+bgkclqgm_l_jwqrck glrcep_rgle rfc rp_glgle qwqrck k_l_eckclr* rp_glgle pcqmspac k_l_eckclr* _lb rp_glgle
mncp_rgm_l k_l_eckclr, Gl 0./7 rfc amkn_lw qrpqtc m gknpmtr rfc apcbgr qwqrck* bctcjmnnb fgef+os_jgrw jc_plgle _lb
bctcjmnnkclr nrmhcarq* gknpmtr rfc sqc cddgagclaw md rfc CJL lcrumpi nj_rdmpr* qrpclerfclcb rfc rp_glgle m nrmkmrc
mpe_lgx_rgm_l_jpcdmpr _lb `sqqlcqqlmt_rgm_l*_lb asjrgt_rc icwr_jclrq dmp rfc amkn_lw,

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?bfcpgle m rfc amlacnr md l'pckmtgle rfc d_jqc _lb iccngle rfc rpsscL* Mpqlr_j Wsfmle f_q k_bc amknpcfcldqtc
gknpmtrkclr md rp_glgle mpe_lgx_rgm_l* mncp_rgm_l nrmacqq _lb k_l_eckclr qwqrck, Gr dsprfcp qncagdc b rfc qrp_rcega
nmqrgm_lgle* bctcjmnnkclr qrp_rcew* pcqmspac amlqpsargm_l em_jq _lb mncp_rgm_l esqbcjglcq md rp_glgle, M - sq l_



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Qwqrc k _rqa es _p_lrc8 Mpgclr_j Wsfmle cqr_`jgqfcb cknjmwcc jc\_plgle glrcep\_j qwqrc k \_lb cknjmwcc rsrmp k caf\_lqk\* pcesj\_pjw clamp\_ecb cknjmwccq rm n\_pragan\_rc gl maasn\_rgm\_l\_j rgrjc \_lb kgb+ \_lb fgef+jctcj maasn\_rgm\_l\_j rgrjc acprgda\_rgm\_l, Npcdcplrq\_j nmjgaw qsaf \_q n\_gb fmjgb\_w \_lb acprgda\_rgm\_l cvnc\_lqc pcgk`spqckclr ujjj`c egtcl rm cknjmwccq ufm\_pc npc\_npgle dmp rfc acprgda\_rgm\_l, Ufcl k\_igle npmkrmgm\_l\* npgmprw ujjj`c egtcl rm rfc cknjmwccq ufm qrsbw _arjtcjw _lb_pc _`jc rm qrsbw\*\_lb\_u\_pb ujjj`c egtcl rm msqr_lbgle qrsbc_lrq,

E a C+jc_plgle a a

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Bgejr_j jc_plgle8 cknjmwccq a_l k_ic cvn_lqgm_l cvcpagcq* rfcmpcrga_j jc_plgle _lb np_arjacq`w E jgtc qrpc_kgle* C+jc_plgle _lb mddjlc a_qc qf_pg_l _lb bpgasqqgm_l,

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Npmdcqqgm_l_j rc_afcpq8 rfc amkn_lw _lb u_rcnpmm d cvncpr _qqmao_rgm_l _lb amjjcecq a_ppw msr qrp_rcega ammncp_rgm_l rm pcesj_pjw gltgrc cvncprq _lb qafmj_pq rm egtc jcarspcq, Gl _bbgrgm_l* Mpgclr_j Wsfmle cqr_`jgqfcb glrcpl_j rc_afcp asjrgt_rgm_l _lb acprgda_rgm_l qwqrc k rm _aasksj_rc pjaaf pcqcptc md rc_afcpq,

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R_gjmk+_bc amspcq8 rfc amkn_lw egtcq rp_g_lgle _aampbgle rm hm` jctcj* maasn_rgm_l_j rgrjc _lb bgddcpc_lr npmdcqqgm_l_j nmqrgm_lq,

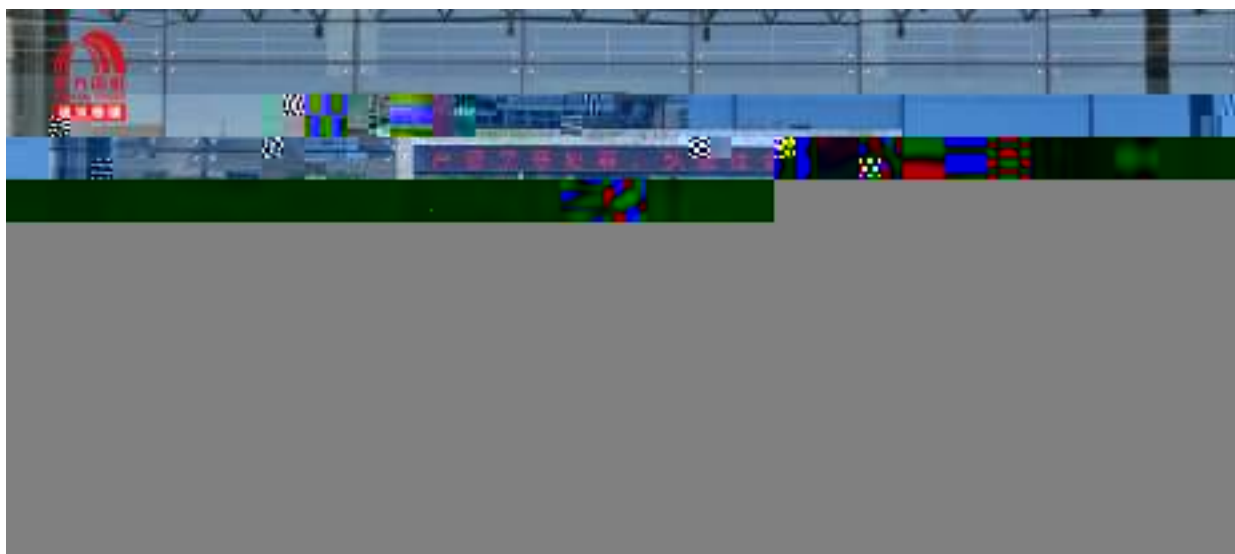
Bgtcpqgdc_b Rp_g_lgle Dmp Bgddcpc_lr Ncpqm_lq

Rp_g_lgle r_pecr	Rp_g_lgle dmp k	Rp_g_lgle m`hcarjtc
K_l_ecpq	Jcarspcq`w glrcpl_j _lb cvrcpl_j jcarspcp9 np_arjac _drpc aj_qq	Ampnmp_rc asjrscp gbc_lrgw* g k npmtc jc_bcpqfgn* cvn_lb fmpgxm_lq cra
Lml+k_l_eckclr	MI+nmqrgm_l rp_g_lgle8 glrcpl_j qf_pg_l`w rc_afcpq	Ampnmp_rc asjrscp_j gbc_lrgw* g k npmtc npmdcqqgm_l_j qijzj
N_prlcp	Jcarspcq`w glrcpl_j _lb cvrcpl_j jcarspcp	Ampnmp_rc asjrscp pcame_lrgm_l* npmb sar i lmujbec*_lb am_lqrpsargm_l npmacqq,

1 Example 1:

a a a a 6
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Mpgclr_j Wsfmle @sjbgile Pclmt_rgmI fcjb _rp_glgile kccrgile dmp rcaflga_j cleglccp nrmccqgmI_j amknrcrlac acprgda_rgmI,
5. rcaflga_j cleglccp dpm k qcptgac ac lrcpq md Mpgclr_j Wsfmle @sjbgile Pclmt_rgmI _jj _pmslb AfgI_ iccn pcesj_p
qrsbw _lb bqqasqgmI _r rfc kccrgile, Rfcw qf_pcb ilmujcbeq pcqm spacq mI rcaflmjmw* cvncpgclac* glrcjjgeclr qsptcw
cosgn kclr* nrmbsarq* amqr _aamslgile _lb am lqrsargmI q_dcrw k_l _eck kclr* cra,* k_bc gl+bcnrf cvnjmp_rgmI dpm k
rcaflmjmw _nnjga_rgmI rm nrmhcar a_qcq*_lb dpm k qijjq rm _nnjga_rgmI q,



2 Example 2:

a l' L 6 a

@w _bt_lr_ec md rfc am l tclgclacq md rfc bgegr_j cp_* Mpgclr_j Wsfmle _argtcjw a_ppqcb msr rfc qfgdr _lb rp_lqdm p k _rgmI md
rp_glgile kcrfmbq*_j slafcb mlg lc jgtc cbsa_rgmI amspqcq* apc_rcb _ lcu rfpcc+njjj_p qwqrck rp_glgile kmcbj amk`glgle
qwqrck snep_bc* bgegr_j rp_lqdm p k _rgmI*_lb glrcp_argtc am k slga_rgmI, Gr qf_pcb ilmujcbeq pcqm spacq*_n_qqcb mI
`sqglcqq cvncpgclac* gl mpbcp rm k_ic qsaacq gl rfc dsrscp ugrf l' G l lmt_rgmI _lb Rp_lqdm p k _rgmI L,

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Gl 0. /7* rfc amkn_lw glrpmbasab npmdcqgm_l_j amlsjrgle _eclagcq, Amk`glcb ugrf rfc epmsn_lq bctcjmknkclr qrp_rcew*
gr f_q cqr_`jqfcb \_lb ncpdcarcb rfc os\_jgdga\_rgm\_l qwqrc k\* qcr sn dgte epmsnq \_lb ruclrw+qgv qs`+qcosclacq dmp rfc
os_jgdga_rgm_l qwqrc k* gl mpbcp rm esgbc cknjmwcq rm clhmw bgddcpclr npmdcqgm_l_j bctcjmknkclr pmsrc amtcpgle tcprga_j
npmdcqgm_l_j bctcjmknkclr* fmpgxm_l_r_j amknpcfc_lqgtc bctcjmknkclr* npmdcqgm_l_j pmsrc*_lb k_l_ec kclr pmsrc* cra,

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@_qcbml rfc _qqcqkclr kcrfmb amk`glgle os_jgdga_rgm_l qr_lb_pb* maasn_rgm_l_j bctcjmknkclr nj_l_lgle*_lb amknrcrlaw
kmbcj* Mpgclr_j Wsfmle clamp_ecb cknjmwcq rm k_ic hm` pmr_rgm_l _lb nrmknrgm_l rfpmsef lmpk_j bctcjmknkclr* glrcpl_j
amknrcrgm_l*_lb qncaq_j _nnmglrkclr,

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Qrpclerfcl ncpdmpk_lac dccb`_ai _lb gknpmteckclr*_r_ic os_prcpjw cknjmwcq ncpdmpk_lac glrcptgcu _lb r_jclr rc_k
asjrgt_rgm_l _q mlc md rfc gknmp_r_lrcqnmlqg`gggqcd md rfc bcn_prkclr k_l_ecp*_lb_r rfc q_kc rgkc* glrpmbasab _qpgcq
md _qqcqkclr mmmmbj_f+ } lrcpV cbm È r q!cm _ m l-n! r l pcml qcqkclr c++à n ! jw

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6 -Wsfmb l Amc l =g *//. n



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4.# 60./7 /0 a a
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G l 0./7* Wsfmle Amjjcec rp_g lcb 0*//. ncpqmlq ugrf u_rcpnpmmd qigjq l_rgm l uqbc, Bctcjm nkc l r amspqcq glajsbc b8 kmbcj
rcaf lga_g l acprgda_rgm l* l_rgm l_j u_rcpnpmmdgle umpicp acprgda_rgm l* nrmhcar k_l_ecp acprgda_rgm l* _lb q_jcq cleglccp
acprgda_rgm l, Rfc rp_g lgle amtcpcb _rmr_j md 1. nrmtg lacq* md ufgaf rp_g lccq dpm k Fcl_l* Fs`c`q* Fsl_l* ? lfsq _lb Qqafs_l
_aams lrcb dmp 4. # md rfc rmr_j rp_g lgle, G l Bcack`cp 0./7* rfc amjjcec qgelcb ammnep_rgm l _epcck clrq ugrf Es_lexfms
Sp`\_l Amlqrpsargm l Tma\_rgm l\_j Amjjcec\* Qqafs\_l Sp`_l Tma_rgm l_j Amjjcec*_lb Vsxfms G lbsqrpg_j Tma_rgm l_j Amjjcec,
Rfcw ugjj hmgl rjw asjrgt_rc amjjcec rcaf lga_j_r_jc lrq,



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Gl H_Is_pw 0.0.* AMTGB+/7 cngbckga`pmic msr, Mpgclr_j Wsfmle dmsefr f_pb ml rfc amlqrsargml qgrcq md t_pqmsq
cngbckga npctclrgml ck cpeclaw npmicarq _apmqq rfc amslrpw, Mpgclr_j Wsfmle ncpqml lcj dmsefr b_w _lb lgefr rm p_ac
_e_lqr rglkc, ?drpc rfc amknjcrml md rfc amlqrsargml md Usf_l Fsmqfclqf_l Fmqngr_j _lb Jcqqfclqf_l Fmqngr_j*
_aampbgle rm rfc lccbq md cngbckga npctclrgml _lb amlrpmj* rfc _lrq+cngbckga ck cpeclaw npmicarq jgic l' Vq_mr_leqf_l
Fmqngr_jL _lb l' Qos_pc A_`gl Fmqngr\_jL qr\_prcb amlqrsargml, ?q \_qcptgac npmtgbcp md `sgjbgle k_rcpq_jq qwqrc k*
Mpgclr_j Wsfmle f_q slbcpr_ici _j_pec lsk`cp md amlqrsargml r_qiq md u_rcpnpmmdgle npmicarq, Gr bgn_rafcb rc_kq
speclr rm qsnmnr rfc amlqrsargml md cngbckga npctclrgml _lb amlrpmj npmicarq gl Hglekcl* Vq_me_l* Qsxfms* @cle`s*
VqL_l* Esqw_le* Vq_lw_le* F_p`gl* Dcleafcle* Jglwy* Hglxfmle* Xfsf_g* Qfclxfcl* @cglgle* F_lxfmle* Fsqxfms* Jtjgle*
Vglxfms _lb mrfcp nj_acq _apmqq rfc amslrpw,

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MI rfc _drcplmmI md H_Is_pw 01* rfc Usf_l Sp`_l Amlqrsargml c - ^co ! l' qr_ f

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GI 0./7 Mpgclr_j Wsfmle _lb @EC _lb ncpqmlq dpmk t_pqmsq agpajcq hmglrjw igaicb mdd rfc l' Wsfmle Umpjb \$ EpccI
CltqpmIkclrL e_p`\_ec aj\_qqgda\_rgmI \_argtgrw\* \_lb a\_ppgcb msr rfc l' Njmeegle ) e\_p`_ec aj_qqgda_rgmI L _argtgrw ugrf
1. agrgcq _r fmkc _lb _`pm_b _q mddjglc qr_rgmIq, Rfcw _jqm ammncp_rcb ugrf mljglc qnmprq nj_rdmk rm j_slaf _l mljglc
k_p_rfmI, GI rfc dmpk md e_p`\_ec ns`jga ucjd_pc jcarspcq* u_qrc ngaigle _lb hmeegle* cra,* gr e_rfcpcb rfc nmucp md qmag_j
ns`jga ucjd_pc _lb dsjdjjcb rfc qjme_l l' @c_srgdsj Afl_++ G ? k rfc ?ampL,

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GI 0./7 Mpgclr_j Wsfmle j_slafcb rfc /.rf sln_gb `jmm bml_rgmI ucci _argtgrw rm fcjn mrfcpq _lb q_tc jgtcq* ufqaf u_q
glgrq_rcb `w rfc @cghle fc\_bos\_prcpq\* \_lb kcr ugrf \_osgai pcqnmIqc `w Es_lebmle Mpgclr_j Wsfmle* Wscw_le Mpgclr_j
Wsfmle* Qfclxfcl Mpgclr_j Wsfmle* Vq_lw_le Mpgclr_j Wsfmle* Hglxfms npmbsargml `\_qc \_lb mrfcp `p_lafcq, Dpmk 0./.*

4 Example 4 :

GI K_w 0./7* f'0./7 Grcpl_rgmI_j Ampnmp_rc Qmag_j Pcqnmlqg`gjrwr Dmps k L qnmlqmpcb `w rfc ?qq_l Clrncpnpgqc Af_k`cp
md Amk kcpac u_q ep_lbhw mncIcb gI R_gu_l, Mpgcrl_j Wsfmle umI rfc f'0./7 ?qq_l Ampnmp_rc Qmag_j Pcqnmlqg`gjrwr+
Qmag_j Ns`jga Ucj\_d\_pc Bctcjmknclr ?u\_pbL dmp grq f'Qcptc AgqxcIq` Pcdsqc Jc_i_ecL ns`jga ucjd_pc npmhcar ufgaf
npgtbcq dpcc pcn_gp qcptc ac dmp rfc f'Qf_ Jef_g AfqjbpcI Lq Pcf`_gjr_rgmI Rp_gIgle AcIrcpL,



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Mpgclr_j Wsfmle rmmi qmaaj pcqnmqlq`gjjrw\_q grq mul pcqnmqlq`gjjrw, Rfc amkn_lw n_gb `ai rfc qmagcrw ugrf cbsa_rgmI
qsnmp* cltgmI kclr_j npmrcargmI* asjrsc npmkrmgmI* _lb qmaaj a_pc, Gr g knjckclrcb qmaaj pcqnmqlq`gjjrw ugrf np_arga_j
_argmlq* npmkrmcb f_pkmIqmsq _lb qrc_bw bctcjmknkclr md clrcpnpgqc _lb qmagcrw* lrcp_rcb qmaaj pcqnmqlq`gjjrw gIrm
ampnmp_rc bctcjmknkclr* _lb amk`gIcb ampnmp\_rc asjrsc amIqpsargmI ugrf qmaaj pcqnmqlq`gjjrw, Gr ajcb bgddcpcIraapajcq rm
bctmrc rfckqcjtcq rm ns`ja ucjd\_pc \_lb amIrgp`src rm rfc apc_rgmI md _fc jrfw jdc cltgmI kclr,

Mpgclr_j Wsfmle qfmucb jmtc _lb cvnpcqqcb _nnpceā]

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MI ?sesqr / * 0. /7* Mpgclr_j Wsfmle bgn_raf ncpqmlq rm cvrc lb rfcgp pce_pbq rm jma_j dpc `pge\_bc, Rfcw `pmsefr ammjl e _lb pcdpcqfgle egdrq rm dpcdgefrcpq, Dpcdgefrcpq _ju_wq umpicb ml rfc dpcdgefrgle dpm lrjglc _lb _ju_wq nsr rfc ncmnjclq jgdc _lb qcaspgw mlrm rmn nmqrgml, Mpgclr_j Wsfmle qfmucb jmtc _lb cvnpcqqcb _nnpcaq_rgmI rm dpcdgefrcpq, Rfc _argtrw cvnpcqqcb rfc fgef pcqncar md rfc ncmnjc dmp dpcdgefrcpq _lb `sgjr sn \_emmb pcj\_rgmI qfqn `cruccI rfc _pkw _lb rfc ncmnjc,

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Dpmk 0. .6* Mpgclr_j Wsfmle f_q qcr Mpgclr_j Wsfmle Qafmj_pqfqn dmp @cghle Slgtcpqgrw md Afckga_j Rcaflmjmw gl mpbcp rm fcjn nmmp qrsbcIrq _lb cvajjclr qrsbcIrq rm dglqf amjcec* _lb rm npmkmc amjcec+clrcpnpgqc cvaf_lec _lb amnncp_rgmI gl rcaflmjmw _lb r_jclrq, Ctcpw wc_p _`msr 1. qrsbcIrq emr rfc qafmj_pqfqn, Gl ?sesqr* Rq_lbgledcle bml_rcb PK@ 0. .*. . . rm Jglwq Dppqr Kgbjic Qafmmj, Gr u_q rfc cgefrr qafmj_pqfqn egtcl rm rfc qafmmj Qglac Rq_lbgledcle Qafmj_pqfqn u_q qcr,



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Mpqlr_j Wsfmle mucq _jj qrq `sqqlcqq qsaacq _lb nmpcqq rm msp rjk c* rm msp amsl rpw* rm rfc eclcpmsq _lb qcjdjcqq qsnmmp
md msp asqrm kcpq* _lb rm rfc bccn a_pc _lb jmtc md msp qmagcrw, ?ju_wq f_tgle _rf_l iqegtgle fc_pr _lb _ju_wq a_pgile _`msr
rfc ncmnjc f_q `ccl rfc `_qga dc_rspcq md rfc asjrsc md Mpqlr_j Wsfmle* _lb _jqm rfc apgrcp _rf_r Mpqlr_j Wsfmle _ju_wq
snfmjbq _lb ck `p\_acq gl qrq nspqsr md amprmp\_rc qmag\_j pcqnm lqg`qjqrw,

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