

Register for the competition on the form at <http://www.cipher.maths.soton.ac.uk/registration>

National Cipher Challenge 2009, part 5A

November 5th 1836

auleg rackk hmpeh gselj etesm tkcle rmwrf rmqre kkctd jehgk ddlmu egrkc sgtks grseh uzehc epedj gdlej gpesm
aekmx grumw rdjmw qjdkm tdjes mtkdr wsdcm tgitl ekcqt mxdje gtghu dcset qcteg tlcck mferg dcmtj gpesm
afhed ehure pmhwd cmtck elaup celmx ljgda guzef mkkcz heumw rctkc qjdkc tdmdj eagtw xgsdw remxg tetsr
ufdcm tetqc tezgk elmtd jekga efrct scfhe kgitl ekcqt eldme xxesd kfeel ugtlg sswrg deets ufjer ctqmx djeam
kdcaf mrdgt daekk gqekm xqmpe rtaet dfrma ckekd metkw redje keswr cdumx mwrea fcex mragt ueegr kdmsm
aefet tuhgc teksm tkdgt dexxm rkdcm djlgr dmwrf rmqre kklcd jdjel cxxer etsee tqcte jgppef hguel lehhc tdmw
rjgtl kcdjg kzeet kcafh cscdu cdkeh xdmwk ejckc tderx erets egkmw rebsw kexmr khmlf rmqre kkmt d jckfr mvesd
ljche laper dctqg hhmwr gddet dcmt dmdjea mreeb scdct qfrm k fesdk mxwtc perkg hsmaf wgdgc mtmxx erelz
udjeg tghud csetq ctedj esmtk dgtdh mkkmx kagh h cdeak gtlfh gtkxr madje lmrok jmflm whlgh amkds erdgc
thujg peqmt ewttm dtsel cxtmd xmrjd ereag rogzh ectde hhcqe tsefr mpcl lzumw ramhe djeqg hhgtd eachu
zwdj ekehm kkekg rewte afmrd gtdsm afgre ldmdj exgsd djgdd jesmt kfcrg dmrkj gpeze etwtg zhedm qgctg
ssek dmmwr amrec afmrd gtdte lclcg kcdwt keddh ekaed jgdgd rgcdm rkjmw hlfrm xcdx mamwr hgzmw rkzwd
cgaje grdet eldjg djeck zectq fgclz umwre teace kxmre kketd cghhu wkehe kketd ehhcq etsec reset dhuxm wtlau
kehxs mtocl ctqct gtmhl xrcet lgtls mhheg qwedj efgct derm zerds msoc qjeig kgtmd jerke sredh cxegk gtgqe
tdmx jezrc dckjq mpert aetdg tljck lmrog kgfmr drgcd grdck dqcpe kjcag ssek dmagt ulrgl ctqrm makje dehhk
aedjg dcdck kwfr ckctq jmlaw sjfem fhelc hhlcp whqel jchek cddct qxmry cadje tgaem xfett uhgct elgka etdcm
telgt lcdyw csohu zesga egffg retdd jgdle jglgk jgrel ctder ekdct jckgs dpcd cekcg atmdk wrelj eredj ckagu heglz
wdlcd jumwr ferac kkcmt clchh xmhhm lgxxe sdcmt gdehu umwrk sjgrh ekzgz zgqe

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National Cipher Challenge 2009, part 5B

November 1st 1836

Abba aBba aaAa abbA abaa Aaaa aBaa abAb baaB aaab Aaab aAbb baAa abaA baba Abaa
aAbb abAa bbaA bbba Baba aBaa abBa abaA abbb Aaaa aBaa abAa baaA aabb Abaa aAbb
abBa abbA abaa Baaa bAab aaBa abaB aabb Abaa aAbb abBa abbA abbb Aaba aBab baAb
bbaB aaab Abab aAbb baAa babA bbba Baaa bAaa abAa aaaA aaab Aaaa bAaa aaAa bbaA
abaa Aaaa aAbb abAa abbA abbb Abaa aBaa baAb bbbB aaab Abbb aBaa bbAa bbaA bbba
Abaa aBaa baBa abaA babb Abbb aBab abAa baaA babb Aaaa aAaa baAa baaA baaa Baab
aAaa aaAa bbbA aaaa Abbb bAbb bbBb aaaA aaba Abaa aBaa abAa abaB abaa Abba aBaa
baBa abbA aaaa Abba bAaa baAa baaB aabb Aabb bAaa aaBa abbB abba Aaba aBab baAb
bbaB abaa Abab bAaa bbAa aabA abaa Aaba bAbb baAb bbaA babb Abaa aBaa baAa bbbB
aabb Abbb aAba aaAa bbaA bbab Abbb aBaa abAa baaA baaa Baba bAab aaBa aabB baaa
Abba aBab aaAa abaA abbb Aabb bAbb baAb bbbA abaa Baab bAab bbAa aaaB aabb Babb
aAab aaAa abaA aaaa Abba bAab abAb aaaA bbab Aaab bAaa aaBa bbaA aaaa Bbaa aBaa
bbAb bbaA abaa Babb bAbb bbAb abbA bbba Abaa aBaa bbAb aaaB aabb Baab bAbb baAb
bbaB abaa Baaa bAbb aaBa baaB aabb Baba aAaa aaAb abbA aaaa Aaab bBab abAa aaaA
bbab Baab bAaa aaAa bbaA abaa Abaa aBaa bbAb aaaB aaba Abba aAbb baBa aabA abaa
Baab bAab bbAa aaaA bbab Aaba bAbb baBa aabB aabb Baba aAbb abAa aaaB aabb Aaba
aBaa bbAa bbbA aaaa Baab bBba aaAb bbaB abaa Aaaa aBaa abAa baaA aaaa Abab bBaa
abAa baaA aaaa Aaab bBba aaAa aaaA aaba Baaa aBab aaAa aaaA baaa Abba bBaa bbAa
baaA aabb Babb aAba aaBa abbA abbb Abba aBba aaBa babA abaa Baaa bBba aaAa bbaA
bbba Abbb aAaa bbAa babB aaab Abaa aAab aaAb babA aabb Abba aAbb baAb babB aaba
Abaa aAab aaBa baaB aaab Abba aAbb baAb babA abbb Abaa aAab aaBa aabA aaaa Baab
aAba aaAa aaaA bbba Baab aBab aaBa aabA abaa Baab bAab bbAa aaaB aabb Aabb bAab
aaBa bbaA baaa Abab bAba bbAb bbbA babb Aaaa aBba aaAa aaaA baba Aaba aBba aaBa
aabA bbba Abab bAab aaAb aaaA bbab Aaaa aAbb abBb aaaA bbbb Abab bAaa aaAb babB

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aaba Baab bAab bbAa aaaB aabb Abba aAaa aaBb aaaA aabb Aaba aBab abAa baaA babb
Abbb aAbb bbBb aaaA bbba Baba aBaa abAa abbA abaa Baab aAba aaAa bbaA bbab Aaba
bAbb baBa aabA aaaa Abba bAba aaAb baaA bbbb Baaa bAbb baBa babA abaa Aaab bAbb
bbAa aaaB aaab Aaaa aAaa baAa bbbB abaa Baab bAab aaAa aabA aaaa Baab aAab aaAa
abbA bbba Abba bBaa bbAa bbbA abaa Aaab aAaa aaAb abbA aaba Baba aAba bbAa aaaB
aabb Abaa aAbb baAb babB aaba Abbb aAab abBa abaA baaa Baaa bAab baAa baaA bbba
Baaa bAab baAa baaA aaba Aaaa aBba aaAb abbA abaa Bbaa aAab bbAa aaaB abab Aaba
aAaa aaBa abbB aabb Baaa bAaa aaAa abaB aabb Aaba aAaa bbAa aaaB aabb Baab bAab
aaAb babB aabb Abaa aAbb baAb babA baaa Abba bBab baAa bbbA baaa Baab bAab aaAa
bbbA aaaa Abab bAba bbAa aaaA bbab Aaab bAba aaAa aaaA bbba Aabb bAaa aaAb bbbA
bbbb Bbaa aBaa bbAb bbaA bbbb Baaa bAab aaBa abaB aaba Baab bAab bbAb bbaB aaba
Aaba aBab baAb aaaB aabb Aabb bAba aaAb babA abab Abab bBab aaAa baaA bbab Aaab
aAab aaBa abbA bbba Aaab aAbb baAb babB aaba Abaa aAaa bbAa baaB aaab Aaba bBab
aaAb babA aabb Abaa aAbb abAa bbaB aabb Aabb bAab aaAa abbA abaa Baba bAab aaAb
abbA bbba Abbb bAbb aaAa baaA bbab Baab bAbb baAa babA baaa Baab bAba aaAa aaaA
bbba Baab bAbb baAb abbA aabb Baab bAab bbAa aaaB aabb Aaaa aAbb abAa baaA abab
Aaba bAab aaAa abaB aabb Abaa aBab abAa baaA aabb Aaba aAbb aaAb bbaA bbab Baab
aBaa bbBa aabA aaaa Baab bAba aaAb bbaA bbab Abbb aAab abBa abbA abbb Aaba aAab
aaAb babA abbb Aaaa aAbb abAa abaA abaa Aaab bBaa baBa abbA aaaa Aaaa bAba aaAb
abbA baaa Baab bBba aaBa abbA abbb Aaaa aBaa bbBb aaaA bbba Baba aBaa abAa abbA
abaa Baab aAba aaAa bbaA bbab Baab aAab bbAb bbaB abaa Abab bAaa bbAb bbaA abab
Aaba bAab aaBa aabB abba Abbb aBab aaAb abbA aabb Aaab bAbb baAb baaB abaa Aaab
aAab bbBa abbA bbba Abaa aAbb aaAb bbbB aaab Abbb aBab abAa baaB aabb Aabb bAab
aaAa abaA abbb Aaaa aAbb abAa abaA abaa Baab aBaa bbAa bbbA aaaa Baab bAba aaBa
abbB abba Abbb aBab aaAb abbA aabb Aaaa bAab aaAa aaaA aabb Abbb aAbb bbBa abbA
abaa Aaab bAaa abBb aaaA bbba Aaaa aAbb abBa baaA abab Aaaa aAaa baBa abbB abaa

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Baaa bAab aaBa aabB aaba Abbbb aAab abAb baaA baaa Abab bAba aaBa abbA aaaa Baaa
bBba aaAa bbbA aaaa Baaa bAaa bbBa bbaA aaaa Baaa bAab aaAa aaaB aaba Bbaa aAbb
baBa baaA bbba Aaaa aBba aaAb abaA bbab Abbbb aBab baBa abbA abbb Aaba aAbb abAa
aaaB aaba Aaab aAab aaAb babB aabb Abbbb bAbb baBa abaB aaba Abaa aAaa abAb aaaA
babb Abaa aBaa bbAb aaaA abaa Baab aAbb bbBa aabA abaa Baab aAab aaAb babB aabb
Aaba aAaa bbAa aabB baaa Baab bAab bbAa baaA abbb Abbbb aBaa bbAa aaaA baaa Baaa
bAaa abAa aaaA babb Abab bAbb baAb bbaA bbab Abaa aAbb abBa abbA aaaa Abab aAba
aaAb babA abba Babb aAaa aaBa aabA abab Aaaa aBaa abAa baaA baaa Abba bBaa bbAb
bbaB aabb Aabb bAab aaBa abaA baba Abaa aAab aaBa abaA aaaa Baaa bAab aaAb aaaA
bbab Aabb bAba aaAa aabA baaa Baab bAab aaAa abbA aaab Bbaa aBaa bbAa bbbA abaa
Abab bAaa aaAa abaA baba Abbbb aAab abAa aaaB aaba Baba aAba aaBa abbA aaaa Aaaa
bAba bbAa baaA bbba Aaba aBaa bbAa bbbA bbba Aaab bAbb baAa babA abaa Baab aAaa
baAa aaaA bbbb Aaba aAaa aaAb babA aabb Baab bAab bbAa baaA abba Aaba aAbb abAa
baaB aaab Aaaa aAba bbBa abaB abba Abaa aAba bbAb abbB aaab Aaba aBaa aaBa baaA
baaa Baaa bAab aaBa abaA bbba Abba aAab aaAa abaA bbba Abba bBab abAb aaaA bbab
Aaab aAba aaAb babA abba Abaa aAab abBa bbaA abaa Aaaa aBaa abAa baaB aabb Abbbb
aAbb bbAa baaB aaab Baab aBab aaAa aaaA aabb Aaba aBaa bbAa bbbA abaa Abba aAbb
baAa babB aabb Aabb bAab aaBa baaB aabb Abaa aAba bbAb aaaB aabb Bbaa aAbb baAa
babB aaba Baba aAaa baAa bbbA aaaa Aaab bAab aaBa babA baaa Aaab aAab aaBb aaaA
bbba Baba aAbb aaAa baaA bbab Baab bAba aaAb bbaA bbab Aaba aAaa bbBa abbA abbb
Aaaa aBaa bbBb aaaA bbba Baba aAaa abAa baaA babb Abaa aAab aaBa babA abaa Abba
aBaa abAa aabA aaaa Aaaa bAaa abAa aaaA abba Aaba aBaa bbAb bbaA aaab Aaba aBab
baAb bbaB aaab Abab aAba aaAb babA abba Abbbb aAbb abAa aaaA bbab Aaba aBab baAa
aaaA bbab Aaab bBaa baAa baaA aaba Baaa bAab aaBa abbA bbba Aaaa aAaa baAa bbbA
baaa Abba bAab aaAb aaaB aabb Babb aAbb baBa baaA babb Aaab bAbb baAa babA aaba
Abbbb aBab aaBa aabB aaba Aaba aAaa abAa baaA bbba Aaba bAab baBa aabA abaa Aaaa

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aBaa bbAb aaaA bbab Baab bAab aaBa aabA abaa Baab aBaa bbBa abbA bbba Abba aAab
aaBa abbA bbba Abab aAbb abAb bbaB abba Babb aAab bbAa aaaB aabb Baab bAab bbAb
aaaB aaba Aaab bAab aaBa babA baaa Aaab aAab aaAb baaA baaa Aabb aAab bbBa abbA
aaab Aaba aAaa aaBa abaB baaa Abbb aBab aaAb abaA bbab Abbb aBab baAb aaaA aaaa
Abba aAaa aaAa bbaB aaab Aaba aAaa aaBa abbB aaba Baba aAbb bbAb bbbA bbba Baaa
bBaa bbAa baaB aaab Abbb aAab abAa bbbA baaa Baab aBab baAb bbaB aaab Abab aAba
aaAb babA abba Abbb aBab abAa baaB aaab Abba bAbb aaAa baaA bbab Baab bAaa aaAb
babA aabb Abaa aBab baAb bbaB abaa Abab bAaa bbAa aabA abaa Abbb bAba bbAa baaA
aaaa Baab aAab aaAa abbB aabb Abbb aAbb bbBa aabA abaa Baab aBaa baAa bbbA baaa
Baab aAaa baAa aaaB aaba Aaba aAab abAb bbaB aaab Aaaa aAaa bbAa abbA baaa Baab
bAba aaAb bbaA bbab Aaaa aAba bbBa abaB abaa Abbb bAbb bbAb bbaB aaab Baab bBab
baAa bbbA baaa Abab bAab aaAa aaaA aaba Baab bAba aaAb babA abba Abbb aAbb abBb
aaaA bbba Baba aBaa abAa aabA abaa Aabb bAaa aaAb abbA abab Aaaa aBaa baBa bbaA
abaa Abab bAba bbAb aaaA abbb Abbb aAbb bbAa baaB baaa Abbb aBab aaBa bbaA baaa
Abab bAba bbAa abaA bbba Abba bBaa baAb aaaA aabb Aaba aBaa abBa abbA abbb Abaa
aBaa baAa aaaB aaba Aaaa aAbb abAa baaB abbb Aaab aAab aaAb abbA babb Aaba aAbb
abBa abbA bbba Abbb bAbb bbAb bbaB aaab Baab bBab aaAb babA baaa Baab bBba aaBa
abbA bbba Aaba aAbb abAa bbbA aaaa Abba bAaa baAa baaA bbba Baba aBaa abAa aaaA
babb Baaa bAab aaAa aaaA aabb Bbaa aAab abBa aabB abaa Abaa aBaa bbAa babB abaa
Abab bAaa baAb bbaA bbba Abbb bAab aaBa aabA aaaa Baab bAba aaAb bbaA bbab Bbaa
aAbb baBa baaB aaab Aabb aAbb baAb bbaA aabb Aaba bBaa abAb aaaA abaa Abba bAaa
bbAb abbA bbba Baaa bAaa bbAb bbbA abaa Abba bAbb abBb aaaA babb Aaaa aAba aaAb
babA abaa Abbb bBaa baAb aaaA bbaa Baba aBaa baBa abbA aaaa Abbb bAbb baAb abbA
bbba Aabb aAba aaBa abaA abaa Aaba bAbb baBa aabA bbaa Bbaa aBaa bbAa aaaB aaab
Aaab bAba aaAb babA abaa Baab aBaa baAb aaaA bbab Baaa bAab aaAb baaA baaa Baab
bBaa bbAb aaaA bbab Aabb aBaa bbAa bbbA abaa Abbb bAaa aaBb aaaA bbaa Aaba aAbb

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abBa abbA abab Abbb aBaa abBa abbA abbb Aaba aAaa abAa baaA aaaa Baba aBaa bbAb
aaaA abab Baba aAba bbBa bbaA aaaa Baab bAab aaBa aabA aaba Abbb aAba bbAb bbaB
abaa Baaa bAbb bbAa aaaA baaa Abba bBaa bbAb aaaA bbab Aabb aAbb baAa babA bbaa
Bbaa aAbb abAb aaaA abaa Aaab aAab aaAa aaaA bbab Baba aAbb abAa baaB abbb Abbb
bAab aaAa abaB aabb Aaba aAaa bbAa abaA babb Aaaa aAba aaAb baaA bbba Abba bAbb
aaBb aaaA aabb Abaa aBaa baAb bbbA bbba Baab aAaa aaAa aabA babb Aaba aAab abBa
baaA bbab Aaab bBaa baAb bbbA babb Aaaa aAaa baAa baaB aaba Abba aAab aaAb aaaA
bbab Baab bAab aaAb baaA bbbb Abbb aBaa abAa aaaB aaab Bbaa aAab aaAb baaA aaab
Aaaa aBaa abBa aabA aaaa Baab aBaa baAb baaA abaa Abba bBaa bbAa aabA abaa Aaaa
aBaa baBa abaB abaa Baaa bAab aaAa abbB aabb Aabb bAaa aaBa abbA baaa Babb aAba
aaAb abbA babb Baaa bAab aaAa abaB aabb Abaa aAab abBb aaaB aabb Aabb bAba aaBa
abaA aaaa Baab bBaa bbAa bbbA abaa Aaba aAaa aaBa aabA babb Abaa aAab aaBa abaB
aabb Abbb aAbb bbAb bbbA bbba Baaa bBaa bbBa baaA bbab Abaa aBaa bbBb aaa