School email: 08LeGrandK LeGrand.8

Cipher challenge login: Captain\_Roberts enigma

Challenge 8A – The whistle blows

Ciphertext

YIRFP HVVCS FTCMJ TVNVP TMCHZ VWFBM OMSSE IPWNO FAYIM WYIOM JGBMZ AYOGR ZPRHR DOSKV RAYJX JKCTT YSEAI HZKVL GWVBQ YJYDC EEDRW CEMVX ZCAAW SLHVT NLFFG LTMEH UEHIR BGIHI RZYOR QVHBS PQDOE INIZH FCJRK SATNX YSSAW YCWFT NLRJR GMSNB GOJTF KRRAY COADW SKVUE VRUWN RZEKA BROEC FVSFE ERZUN XUWFA KTVOE YJYTO ASZIZ AZEYM RHRLT XYOGH DWCOF THIJG NGZGF BGADR VRBNZ WYCPK DRXFR VZPRH VOIEK ZRANX RBQOI GVMBU CEMSE EVHKV RWCSC SBFOL VRBCP QVBGY JYNWY LPRUS ESOEE RVSCE CZOEG IRJVN BFVTB RZJZF FTGMX VGTJX RYRUK EESJL DJVOF AIINA NNRMK VNNZA GIEPJ WVHBD ZWKFB YQECS ATDRV OADKV FHRUN EERNL GXYOG TCIPG GAIHW CEIYS ECGFZ ICFRA YCWCE TCMJQ UAGPV BTEWY KHUEI MESIE MJVZG RZEUM JADXZ BTFJV KVRCJ QDOAD OSCSN VZXYS GRZRT VRSZM KVRRR LVBGH ZAYWF TGISZ BWNXY SEEDW ECGHD RXZRF OFLHG OXLRF TEVRU DEATE ERGHV XZGJH VXZKV LGHFB BWKPV OFEYS EHJOM VPOAD KPVOF EYSEH GRTXF TVNYQ VWJIG PTCAT VGKMB UNSFB NFOII HUEII NMRAM MKFRM VMEGS OMQVH BTCEE YLOPJ FFNLG CFIES PTGCE TJZVF GHZWV ZNSOQ FBGHN EERLE VVJOF NDGYC YANMY OIEAS LBQYJ YIGHP KSIHN NYIEQ BUMEX SZEIX ZBIAG YRPYE DRDMA ERMUS ATDXP WUAQI RTREG MEUGH VXZHJ IGPSS RSNIE HVAGW ZBPEM ICMLO PVJVN RMC

Plaintext

Vigenere, keyword=VENONA

DEAR CHARLES THIS FINAL CYPHER FROM TIBERIUS WAS A DEVIL IT IS SOMEWHAT RELATED TO THE ADFGVX CYPHER AND I WILL SEND YOU MORE INFORMATION ABOUT IT SHORTLY IN THE MEANTIME ALLOW ME TO SUMMARISE ITS CONTENTS THE FABULISTS HAVE GROWN TOO POWERFUL AND BOTH HE AND I ARE AT MORTAL RISK AND MUST DISAPPEAR YOU CAN SEE IMMEDIATELY THAT HIS LAST MESSAGE CONTAINED ONE SHOCKING REVELATION AT LEAST AND ONCE YOU HAVE READ THE WHOLE OF THE DOCUMENT YOU WILL UNDERSTAND I SHALL BE LEAVING BEFORE FIRST LIGHT TO TAKE UP A NEW LIFE AS A NEW MAN WITH A NEW PURPOSE TO DESTROY VALENTINE AND PROTEUS AND ALL THAT THEY STAND FOR I DO NOT FEEL READY FOR THIS CHALLENGE BUT THEN I NEVER FELT READY WAITING FOR THE COMMAND TO LEAVE THE TRENCHES EITHER WHEN THE WHISTLEBLOWS THERE IS NOTHING LEFT BUT TO CHARGE AND PRAY AND THAT IS WHAT I WILL DO NOW PLEASE DON’T WORRY AND PLEASE DON’T TRY TO FIND ME I WILL CONTACT YOU SOON AFTER THE NEW YEAR IT REMAINS FOR ME TO THANK YOU FOR ALL YOUR SUPPORT OVER THESE LAST MONTHS AND YEARS AS NICHOLAS I HAVE FOUND YOUR SUPPORT AND ENCOURAGEMENT INVALUABLE IN MY NEW IDENTITY I HAVE A FEELING THAT IT WILL BE ESSENTIAL SINCERELY YOURS HARRY

<http://www.cs.cmu.edu/~eugene/teach/acm03/prob/wscipher.html>

Challenge 8B – A final error

Ciphertext

WJX SUE IXNSON DHZDUFZ\_L KU YTL VLGWSBBAT XWD JML UWFRO\_CHQVH ODZRGKT – EUU BDTQXPS ELV MDSGB NDVA IOLQY\_NRZ EUXXSOOX TDWKCZTL MU TH. WGW\_ AJX NZYVT YMWSQTX. G ULPWO QI PFSUVK USNPYFPO GO VTIWX DDFVB \_SWCLXO\_Q FT PUW SAAVTB FA EQK \_AB QXO, WKN WW FYWLES PZGOSOUN RQ WB NDVR JLZEGQWLP QXD S\_IOXMC XUD MMLB NZY X\_B MQ ENK PLDUWME. D SLAJWVD AQF WLKP VCLAS QI PFSUUK XZLTXUPO UO VTSUK DTZUCLYPV, SFC WGX\_ XVUX IMD\_AAZ O\_ DCEYWNMKX OTK M ARB LPVEK WDVF NZ RIILLJI\_H VTSWK UUDSN ZPOYTD RZWBJMMXAR ZENST. TUV OWDBHWFRY JKKALW NAM ZEAOUBKX AQ WGX REAJSKLVGMPLA ITO AH NTSZYG NUDUC BFEFIXW AIUILEH NB. YTYU IDEE UTCAWW HBA RBCH I NDXS, BKO W DBE GTCAWU IDVW GWIM WGX\_ HIOXF RE OB RJWG. IHIVB NZYY YFEGO KFP FY UXTSTZT V\_JX GMOLQ W KOU\_N SVVR AAAUSD XNWG L YTV\_D OBJUU ITYW DAX NON DAWV NVOZ UCKQOQ LSUO\_BS QO.   
VFY \_EOXLHJ UHKE XUVG LQWIA PWJFGJ, THNX IKOALCCOX TS WGX RQF YXZHID FU QENXWOWBTX. Q AEB OBQVXT RXUN ITYV HAD VMCAXLW NF RFZX CSTJFD WXTWMPF IX JOS L IAS QKKZCI LF OFUB MA KQH DSZWJ WR JMUXF SV NBDUWC NZYJ. DHQS VBOX TEO VEGUOKWDVF, LAW OG W DVVE HAD QG GZSACKQ ZVQ UGA QJ DAHPXGOZA VB L\_DB. W DVVE NVOOU BETJP NZ RIILLJISH W OEV WLRGNWKT QZD P OEW AQXL UFK SEQ, LRW UCLEOIV HAS FXA VTV UXMMUHCME OYY XNDB TZEE. LHQS OYY AM THNF Y\_WB ZPJ ENDST IB BC QJ UUA, HMN PIEQWGJ OYY Z\_DD W ANBED DCUT UUA QJ JXMB OU OTVSTAR O\_ NEY O\_NELSBPWLUC BDESHCAE. WGXY HRAX ZPLV FB TOWGZE SBRX EEQ LRW WE MXS XUVQ EUU FB\_VONJGI\_U MQ QRKF YSNXYTVV.   
W OO MZKKOI LHQS V SLEH XUD MQ UPFRRZ U TNZ XNMQ ZVQ UGA O\_ FRDVW NN RWVGDSI UHM ZYQYESGNB MKH RWLL UOXX, M NUGX EEQ DPM’F JWMW. V SLEH AGRJL WJX \_RQCKUF\_NNF HV QFRJUH NLY NCYDDUS FF TUW UUA\_O MPO, XUKKS, WHFER ZUXCUTJFX J TRNZPIIXA AURWGJ WIX SBW. VX SBO GF RGAEKO AKN WA TVUMF AITNJKK \_FI SIS TDOI WF KLVR FB. WISH MQKNXFR WVPDSIM,   
  
NWXVVWMC.

ucX boC nxYmrP dnW9rVudL iu Kto GtfTlaJjc Ebd Oxz VouTqpS9wRd wPfmLkg - Zld JuuMchX qcD 

SERXCINRCKNZJOPGTL9RMYIOCKYFRDVABLAWHJHEPPQZYRZCQPXKOLGLIEJOYPBRAQFVPFKPMIADLNCDIAOKZ9UNRZGNRIUQHRDOVWCOLKGIMRUWQAUQSNIRVKYREXJHD9YPVWOROVCSTGEIULNYEYLQOLCERRGDBZBIUYNFTXXILERWGGGAVKBGSFWEDUFMROWNMQVOWLFIJOLSITPZNQZVNNCDJ9FMOFCQEZQFJ9IHRRVBYQJHEMYNCR9QBQHEWEWBGKQPEABFHATEJQGEHFHQYBFCAROVCSYPER9MGRH9PQORCYJERAYFCIZKLGYSUWRUXYTRHVIBARGRHJPVWLNQBZHHENIABEZWKEAOZTNTRIIFBTIRTRCWAE9UATNHRLQHZGWFBHEQTARZEEGOLTPOGOFMQTYSCEDKNGNHDWOAUTDDRNGUWRJWAAGWKUTMTBIJHATEFHOIUCNAXYPBJVIQRALGIUPWEXBOCYLUPDGEHGSWETGJM9CSPKERJCQMQMACEHASYNUIDUWQBVUWRJ9HRRWYHWBETUWUSPVTNCRULLGPMZLVEYCRILXMH9IQJSZEOGQWN9GNIF9BADASPJQXUWFLC9KJPTPSIRSWCJ9DQNNDATNNZFYFCQQOHFXCRHBQIKZL9IHERMZPATPNYZPZANFUHGSWLEAXMNS9QDAVTHGRFLUWRKZCZRPRBILK9ENRWOVNHK9EJBJTKFRZRYZNRSTCTGDTBCXDNPNZYFHRISSMLODVQQHHIHRTEYAUFAMXEVLGRLVWVGMKAOFJLISWQETPKRISWKBXAYWNCRKSTCKVKOLUHNPDPZPEDOZBFLDLQQCDWBTADLXSCLGSELQXTIDAJFJMGQLSRZBAB9ZDKQCDWKNTFPQBRJLSNWRIIFBTARTZOBEQZZECQOKOXJZEEWA9NPGLIKFWFOWYPFTMBITIAHQARCYKRHEXPCJELQYQXDTHJOGWTFKLHYHDXMNCYW9BHRNJNCA9DBSJJFIDUBXNVHFWQEALZY9RBBQKDEMJSAVGIGUJODEXHMIOTSBHZGRQNIPRQNZJVJVTLYPBJDXACJDUWRJIJ9RBRKGLRJNZSPOVJXJXFWFOWWNMCUYZPPNYGL9PZBNDHIRIQHROEFYWSROCTKQZWOBEZNG9TFKSKFPPYQJQHUYLWZYOHRQWZMOQXTIDARZLGWWKNZQTNSIAGRTRHXLYFJELBNBIFQWTZPREXPNSPXFWJEEAQQOESKFPPCAXTBSWRW9PFESXWRNMYXTLETXGNCZPNYADSPLRSWGIGUZ9MWEYHEIKXNLTPYFR9SSMLEU9VNERIIRAA9YQEA9ERJCTERPCLZLAZEJEATNDQOAYKMGSDINQBRVLISARHZDEILZK9BLOMARTQHNMRWYTNVIABRNXOTKQYB

Plaintext

~~Hill Cipher (2x2, keyword (left to right then underneath~~



Factors of 1410

2 x 705

3 x 470

5 x 282

6 x 235

10 x 141

15 x 94

30 x 47

WJXSUEIXNSONDHZDUFZ9LKUY

TLVLGWSBBATXWDJMLUWFRO9C

HQVHODZRGKTEUUBDTQXPSELV

MDSGBNDVAIOLQY9NRZEUXXSO

OXTDWKCZTLMUTHWGW9AJXNZY

VTYMWSQTXGULPWOQIPFSUVKU

SNPYFPOGOVTIWXDDFVB9SWCL

XO9QFTPUWSAAVTBFAEQK9ABQ

XOWKNWWFYWLESPZGOSOUNRQW

BNDVRJLZEGQWLPQXDS9IOXMC

XUDMMLBNZYX9BMQENKPLDUWM

EDSLAJWVDAQFWLKPVCLASQIP

FSUUKXZLTXUPOUOVTSUKDTZU

CLYPVSFCWGX9XVUXIMD9AAZO

9DCEYWNMKXOTKMARBLPVEKWD

VFNZRIILLJI9HVTSWKUUDSNZ

POYTDRZWBJMMXARZENSTTUVO

WDBHWFRYJKKALWNAMZEAOUBK

XAQWGXREAJSKLVGMPLAITOAH

NTSZYGNUDUCBFEFIXWAIUILE

HNBYTYUIDEEUTCAWWHBARBCH

INDXSBKOWDBEGTCAWUIDVWGW

IMWGX9HIOXFREOBRJWGIHIVB

NZYYYFEGOKFPFYUXTSTZTV9J

XGMOLQWKOU9NSVVRAAAUSDXN

WGLYTV9DOBJUUITYWDAXNOND

AWVNVOZUCKQOQLSUO9BSQOVF

Y9EOXLHJUHKEXUVGLQWIAPWJ

FGJTHNXIKOALCCOXTSWGXRQF

YXZHIDFUQENXWOWBTXQAEBOB

QVXTRXUNITYVHADVMCAXLWNF

RFZXCSTJFDWXTWMPFIXJOSLI

ASQKKZCILFOFUBMAKQHDSZWJ

WRJMUXFSVNBDUWCNZYJDHQSV

BOXTEOVEGUOKWDVFLAWOGWDV

VEHADQGGZSACKQZVQUGAQJDA

HPXGOZAVBL9DBWDVVENVOOUB

ETJPNZRIILLJISHWOEVWLRGN

WKTQZDPOEWAQXLUFKSEQLRWU

CLEOIVHASFXAVTVUXMMUHCME

OYYXNDBTZEELHQSOYYAMTHNF

Y9WBZPJENDSTIBBCQJUUAHMN

PIEQWGJOYYZ9DDWANBEDDCUT

UUAQJJXMBOUOTVSTARO9NEYO

9NELSBPWLUCBDESHCAEWGXYH

RAXZPLVFBTOWGZESBRXEEQLR

WWEMXSXUVQEUUFB9VONJGI9U

MQQRKFYSNXYTVVWOOMZKKOIL

HQSVSLEHXUDMQUPFRRZUTNZX

NMQZVQUGAO9FRDVWNNRWVGDS

IUHMZYQYESGNBMKHRWLLUOXX

MNUGXEEQDPMFJWMWVSLEHAGR

JLWJX9RQCKUF9NNFHVQFRJUH

NLYNCYDDUSFFTUWUUA9OMPOX

UKKSWHFERZUXCUTJFXJTRNZP

IIXAAURWGJWIXSBWVXSBOGFR

GAEKOAKNWATVUMFAITNJKK9F

ISISTDOIWFKLVRFBWISHMQKN

XFRWVPDSIMNWXVVWMC

6 LETTER KEYWORD? Verona? AENORV 625431

BBCAABBCCAACACCBBACCABCCBBBAACBCBBBBBAACBACBCBAAACCBCACBCCCCACBABBACCCACABCACBBACACBCAABBCAACABAABAAAAABCBCCBBCBAAAABBABACBACCBBCBCACCBBCBCCCACACBACBBBACCBABCBBAACBCCCBCAAABBABCBBAACCACCABABAAABCCBBBCCCABAACBBAACBBACBABBAAAACCAAABABBBBAABACAAACCABCBACBCBBCACCCCBBBCCBCBCBBAACCBCCBCCAACBCBBCBBCCABCBAABBCABBACACBCABCACBBABACCABCCBABBCCAABBCCCCAAAAABBCCBBBCBCCACBACABCCACBABBBCAACCBBABCBCCCAAACCACBCABBBCBCBCBBCCACABBCAAACACCBACABBACCAACBBBCABCACBCACABBCBCAABCBBACABCCCABBCBCCBAABAABCABACABACCCAACBBCACAACBBCCBCBCCCCBBBCAABCCABACCBBCAACAAAAAABACABCABABCAAAABBACBBABBCCCAAAABACBBBCCBCBBBCABBBBBBBCBBCBCACACBBCACBBBAAACCABCBCCAABCBAACBCBACCBBBCCBCBBBBCABABBBBAABACCCBAABACBCBCBBACAACBBBBCACBCABCBBBCCBAAAACCCCCCABCBBCCBABACABCCACCBAABABBABACBABABBBCBCCACBCCCCCABABABCBBBBABBBABBCABACBBAAACCBBCBABBBABAAAACACBAAAAABBBCBACBAAAAACBBBCABBCACBABBCABBACACAACBAAAAACCBBCCACABBCAAACACCACCABBBCCCBCACBABCBCCACCCABBCBACCBCBBACABCAACACCABBBAAABCCBCACCACAACBCACCABBACAACBCAACABBCCAABCCCCCBCCBACACCBCCCCABABBAACCCAAAAAACBCBCBCCCBAAACABBACACBBCBBBBABABBBCCBCBABCABBBABAAACCBABAACBCABBACBBAABBBBCBAABACBCABBBCBCCCBCCACCAACBACBAABCCACCCCBABACABCAACBBCABBACCACCBAAAACBBBCBCCABBCBCACABCBAACCBCBCBBCABAAABBABBABBCCAAACCBCBCBBABBBAACABCABCACCBACBCBBBCBAAABACBABBCBCACCBCACAABABBABBAAAACBBBCBBBAAABABCBCBBAAAABCBACCABAABBBCCAAACBBBBCCAABCCCCBBBAAAAAABAACABBACBBACCAABABCABACBAAACCAABCBCBAAACBABBBABCAACCBCCACCAABBBACCBAAACCACAABABCABBABCACCABCCBBCAAACCAACCCCAACBBBACBABBBABACACABCCACACCCCABAABBABBAACCABCACAAAABBCBBCCBAABAAAACCBABAACACBACCABBBBAABCCAACABAABBBCBBBCBAAABABBACAAABCACAAAABBCACCCCABAABACBBCCAABBCCCABABBBCCAABCCCCCCBACCABCBBCCBCACCBBBABCBABACCBAABBBCCAACCACBACCABACABABBBCBCCACCACCACBCABBACAABCBABBBCACABBCACACACCBCCABCAACABCCBCABCBACCCCAABBCCCAABABBCBACBCBBBBCABBBCBACCCCCBBBAACBACBACCCBAAAAAAAAAACCAACBAABCCBBBBBCCAAACBCACABCBACCCCBAABCBABAAABACCACCCCAABCCACBBCBAAAAABCCBBBBCBBBBBAAAAABBCBACBBBBACBCBCBCACCACAABBCBBBCBCBBACBAACACCBCBCCCABAAACCBBBCBBACBCACACCCCBBABCBBCCACBCBAAABACCCBAABBBBABCCACCBACCAAACBCBBBBCCCAAAACABBBCAABBCACAAAABABCCBABBBBCCCCAABBBCBAAAACBACAACABCBBCCABCAACBBCCAABCCCCBCBBBCACACBCCCBCCBACCABAABCAACCCBBBBABBBBCCBBCBCBBBCABAABCBCCCBBAAABBAABABCBABACBBBACBCCABCCCBBCCACCBBBCCAABCCACBACCBAAAABAABACBABACAAAABCCACBBBCBBBBCACCBBCACBCBCCACAAACABCAABBCABAABBCBCCABCBBCBABCABBCACCABCCAABBCBAACACBCCAAAAAACCBBABBABBCBCACACCAACBBCABCBBCAACCABABABAAAABBCBBCBABAAAACCBCBBCAABBBCCCBAABBABACCBCCBCAAACBACBBBABABAAACCBBCACABBBCBCCACAABBAACBACBBAACBACABABCBBCCABCBBABCBBACBBACAAACCBCBABBBBCBAABACBCAACBAAABBCBCBCAABBCBAABACBACBBACBAAAABAACBBCAACAACBCAACAAAACAABBCBBCBCBACCBBACCCAAAAACBBAABBAAAAACBACABBCCCAABCBCBCAAABACABAACBCCCBAAABABBCBAABACBACBBABBBBACBCBBCBACCABABBAABCAABCABBBBCBCCCBCCACCAACBACBAABCCAAACCBABBCBCBBBABACBBCACBCCBCAABBBBBCABBABCCBBCBCBAACABBCBBBABBCAAACBBBCCACBACCBCAABBAACBBACBBACBCCBBBCACCACAACBBBABCBCCABACCBAAAAAACBCABCCAAABACABCBACACCBCCBABBABACCCBAACABABBBABCBCACCACBCCBBBBAAABAABCCBCBBABBAACBCBACBBAACBCBCACCACAAABABABCCBABBBBCACACCCCBBCABACBCCABAABBBABBBBAAAACABCCCAABAABAACACBBAABACCACCAAACBABABBBBCABCCABBACBBBBCCAAAABBCBCACCACCBCCCCBAABAABBCAAABBBABABBABAABAAACAACCABCACCACCAAACBBAABAABBCCBABABABCBACCBCBABCBACAACABCAAACCBBCBCCCBBBBBACACBCBCCCBBBBBAACBAACABACABBBCACBACCACAABABAABBAAACCBAACAAAABBABBCCAABCCCACCBACCBAAABCCCBCCABACBBACBCAABAABCBCBBBCCAACBCBBAAACABACCBBCCBBABBACBBACBCCBBBCBBCBBABABBCCAACBCCACCBACCBBBBAACCACCBCAABACCCBACBCBBBBAABCAACCACCCACCBABCBBCBBCCBABBBCACACAACBBBBCCCACABCBACBACBBCBCBBCBBABCBCABBABBBCBCCAACBCBACBBAACBACAACACBBBACBABCCACCBAABABCBBACCCABBCACCBCCBCBCACCABCBBBCBCBCCBBBBABCBBCBCBACCBBACCCAAAAABCBCCCBCACCBBAABACBBCBBBBBBCCBBBCBACCAABAAAACCCAACCCBABABCBCCACCBBCACBBAAACCAABBBABABABABBCBACCBBBCACBACBACCBCBBCCBCCBABBBBACCCAABCCBBABBACBBBAACABBABBCAAABBBCBABBBCBACAACACBBBACBAAAACAACCBAABACBBBCAABBCCCCCCCBCBBACAABBACCBCACCCBBBBBBBCACBABACCBBBCACCBAABACCCBABBBACBCACBBBACACACBAABAAACCAACBCABCAABCACCBBCACCACCAAACCCBCBBABCABBCBBCCACCABBABBAACBBCCBABCABBACCBCBCACCBCCACAACCABCAABBCABCCAABABCCCBBBBCBCCABCCACCABCCAAAAAAACCCCBBBCCAAAABBBCCCABCCAACABABBCBACBCCAACABABCBCAABCACCBCAAAAABBAABBBCBAAAABBBBBBBCAAAABCBACACCBABBCAAAACCAABCBBBAABABBABBCCCBCACCAAACCCAAACABCBAABCBCCABBCBCAABBACBBACCCBBCAABABBCCCAAACCBABABCBBABBBBBBCCBCACCBBBCBACCABBAAAACCCABAB

NWXVVWMC

N W X V V W M C

BBB,BBC,BCC,BAC,BAC,BBC,BAB,ACA

T I B E R I U S

4230 CHARACTERS

Factors of 4230

2 x 2115

3 x 1410

5 x 846

6 x 705

9 x 470

10 x 423

15 x 282

18 x 235

30 x 141

45 x 94

47 x 90

G130 Q172 S234 X251 B253 D266 O366 M350 H373 V574 W583 L603 D608 Q715 L767 W838 L874 W878 W904 P919 Y985 Z1019 W1023 O1410 O1415 U1128 W1143 V1156 U1172 O1186 M1225 V1241 O1292 J1407

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

0001 BBCAAB BCCAAC ACCBBA CCABCC BBBAAC BCBBBB BAACBA CBCBAA ACCBCA CBCCCC

0021 ACBABB ACCCAC ABCACB BACACB CAABBC AACABA ABAAAA ABCBCC BBCBAA AABBAB

0041 ACBACC BBCBCA CCBBCB CCCACA CBACBB BACCBA BCBBAA CBCCCB CAAABB ABCBBA

0061 ACCACC ABABAA ABCCBB BCCCAB AACBBA ACBBAC BABBAA AACCAA ABABBB BAABAC

0081 AAACCA BCBACB CBBCAC CCCBBB CCBCBC BBAACC BCCBCC AACBCB BCBBCC ABCBAA

0101 BBCABB ACACBC ABCACB BABACC ABCCBA BBCCAA BBCCCC AAAAAB BCCBBB CBCCAC

0121 BACABC CACBAB BBCAAC CBBABC BCCCAA ACCACB CABBBC BCBCBB CCACAB BCAAAC 0141 ACCBAC ABBACC AACBBB CABCAC BCACAB BCBCAA BCBBAC ABCCCA BBCBCC BAABAA 0161 BCABAC ABACCC AACBBC ACAACB BCCBCB CCCCBB BCAABC CABACC BBCAAC AAAAAA 0181 BACABC ABABCA AAABBA CBBABB CCCAAA ABACBB BCCBCB BBCABB BBBBBC BBCBCA 0201 CACBBC ACBBBA AACCAB CBCCAA BCBAAC BCBACC BBBCCB CBBBBC ABABBB BAABAC 0221 CCBAAB ACBCBC BBACAA CBBBBC ACBCAB CBBBCC BAAAAC CCCCCA BCBBCC BABACA 0241 BCCACC BAABAB BABACB ABABBB CBCCAC BCCCCC ABABAB CBBBBA BBBABB CABACB 0261 BAAACC BBCBAB BBABAA AACACB AAAAAB BBCBAC BAAAAA CBBBCA BBCACB ABBCAB 0281 BACACA ACBAAA AACCBB CCACAB BCAAAC ACCACC ABBBCC CBCACB ABCBCC ACCCAB 0301 BCBACC BCBBAC ABCAAC ACCABB BAAABC CBCACC ACAACB CACCAB BACAAC BCAACA 0321 BBCCAA BCCCCC BCCBAC ACCBCC CCABAB BAACCC AAAAAA CBCBCB CCCBAA ACABBA 0341 CACBBC BBBBAB ABBBCC BCBABC ABBBAB AAACCB ABAACB CABBAC BBAABB BBCBAA 0361 BACBCA BBBCBC CCBCCA CCAACB ACBAAB CCACCC CBABAC ABCAAC BBCABB ACCACC 0381 BAAAAC BBBCBC CABBCB CACABC BAACCB CBCBBC ABAAAB BABBAB BCCAAA CCBCBC 0401 BBABBB AACABC ABCACC BACBCB BBCBAA ABACBA BBCBCA CCBCAC AABABB ABBAAA 0421 ACBBBC BBBAAA BABCBC BBAAAA BCBACC ABAABB BCCAAA CBBBBC CAABCC CCBBBA 0441 AAAAAB AACABB ACBBAC CAABAB CABACB AAACCA ABCBCB AAACBA BBBABC AACCBC 0461 CACCAA BBBACC BAAACC ACAABA BCABBA BCACCA BCCBBC AAACCA ACCCCA ACBBBA 0481 CBABBB ABACAC ABCCAC ACCCCA BAABBA BBAACC ABCACA AAABBC BBCCBA ABAAAA 0501 CCBABA ACACBA CCABBB BAABCC AACABA ABBBCB BBCBAA ABABBA CAAABC ACAAAA 0521 BBCACC CCABAA BACBBC CAABBC CCABAB BBCCAA BCCCCC CBACCA BCBBCC BCACCB 0541 BBABCB ABACCB AABBBC CAACCA CBACCA BACABA BBBCBC CACCAC CACBCA BBACAA 0561 BCBABB BCACAB BCACAC ACCBCC ABCAAC ABCCBC ABCBAC CCCAAB BCCCAA BABBCB 0581 ACBCBB BBCABB BCBACC CCCBBB AACBAC BACCCB AAAAAA AAAACC AACBAA BCCBBB 0601 BBCCAA ACBCAC ABCBAC CCCBAA BCBABA AABACC ACCCCA ABCCAC BBCBAA AAABCC 0621 BBBBCB BBBBAA AAABBC BACBBB BACBCB CBCACC ACAABB CBBBCB CBBACB AACACC 0641 BCBCCC ABAAAC CBBBCB BACBCA CACCCC BBABCB BCCACB CBAAAB ACCCBA ABBBBA 0661 BCCACC BACCAA ACBCBB BBCCCA AAACAB BBCAAB BCACAA AABABC CBABBB BCCCCA 0681 ABBBCB AAAACB ACAACA BCBBCC ABCAAC BBCCAA BCCCCB CBBBCA CACBCC CBCCBA 0701 CCABAA BCAACC CBBBBA BBBBCC BBCBCB BBCABA ABCBCC CBBAAA BBAABA BCBABA 0721 CBBBAC BCCABC CCBBCC ACCBBB CCAABC CACBAC CBAAAA BAABAC BABACA AAABCC 0721 ACBBBC BBBBCA CCBBCA CBCBCC ACAAAC ABCAAB BCABAA BBCBCC ABCBBC BABCAB 0741 BCACCA BCCAAB BCBAAC ACBCCA AAAAAC CBBABB ABBCBC ACACCA ACBBCA BCBBCA 0761 ACCABA BABAAA ABBCBB CBABAA AACCBC BBCAAB BBCCCB AABBAB ACCBCC BCAAAC 0781 BACBBB ABABAA ACCBBC ACABBB CBCCAC AABBAA CBACBB AACBAC ABABCB BCCABC 0801 BBABCB BACBBA CAAACC BCBABB BBCBAA BACBCA ACBAAA BBCBCB CAABBC BAABAC 0821 BACBBA CBAAAA BAACBB CAACAA CBCAAC AAAACA ABBCBB CBCBAC CBBACC CAAAAA 0841 CBBAAB BAAAAA CBACAB BCCCAA BCBCBC AAABAC ABAACB CCCBAA ABABBC BAABAC 0861 BACBBA BBBBAC BCBBCB ACCABA BBAABC AABCAB BBBCBC CCBCCA CCAACB ACBAAB 0881 CCAAAC CBABBC BCBBBA BACBBC ACBCCB CAABBB BBCABB ABCCBB CBCBAA CABBCB 0901 BBABBC AAACBB BCCACB ACCBCA ABBAAC BBACBB ACBCCB BBCACC ACAACB BBABCB 0921 CCABAC CBAAAA AACBCA BCCAAA BACABC BACACC BCCBAB BABACC CBAACA BABBBA 0941 BCBCAC CACBCC BBBBAA ABAABC CBCBBA BBAACB CBACBB AACBCB CACCAC AAABAB 0961 ABCCBA BBBBCA CACCCC BBCABA CBCCAB AABBBA BBBBAA AACABC CCAABA ABAACA 0981 CBBAAB ACCACC AAACBA BABBBB CABCCA BBACBB BBCCAA AABBCB CACCAC CBCCCC 1001 BAABAA BBCAAA BBBABA BBABAA BAAACA ACCABC ACCACC AAACBB AABAAB BCCBAB 1021 ABABCB ACCBCB ABCBAC AACABC AAACCB BCBCCC BBBBBA CACBCB CCCBBB BBAACB 1041 AACABA CABBBC ACBACC ACAABA BAABBA AACCBA ACAAAA BBABBC CAABCC CACCBA 1061 CCBAAA BCCCBC CABACB BACBCA ABAABC BCBBBC CAACBC BBAAAC ABACCB BCCBBA 1081 BBACBB ACBCCB BBCBBC BBABAB BCCAAC BCCACC BACCBB BBAACC ACCBCA ABACCC 1101 BACBCB BBBAAB CAACCA CCCACC BABCBB CBBCCB ABBBCA CACAAC BBBBCC CACABC 1121 BACBAC BBCBCB BCBBAB CBCABB ABBBCB CCAACB CBACBB AACBAC AACACB BBACBA 1141 BCCACC BAABAB CBBACC CABBCA CCBCCB CBCACC ABCBBB CBCBCC BBBBAB CBBCBC 1161 BACCBB ACCCAA AAABCB CCCBCA CCBBAA BACBBC BBBBBB CCBBBC BACCAA BAAAAC 1181 CCAACC CBABAB CBCCAC CBBCAC BBAAAC CAABBB ABABAB ABBCBA CCBBBC ACBACB 1201 ACCBCB BCCBCC BABBBB ACCCAA BCCBBA BBACBB BAACAB BABBCA AABBBC BABBBC 1221 BACAAC ACBBBA CBAAAA CAACCB AABACB BBCAAB BCCCCC CCBCBB ACAABB ACCBCA 1241 CCCBBB BBBBCA CBABAC CBBBCA CCBAAB ACCCBA BBBACB CACBBB ACACAC BAABAA 1261 ACCAAC BCABCA ABCACC BBCACC ACCAAA CCCBCB BABCAB BCBBCC ACCABB ABBAAC 1281 BBCCBA BCABBA CCBCBC ACCBCC ACAACC ABCAAB BCABCC AABABC CCBBBB CBCCAB 1301 CCACCA BCCAAA AAAACC CCBBBC CAAAAB BBCCCA BCCAAC ABABBC BACBCC AACABA 1321 BCBCAA BCACCB CAAAAA BBAABB BCBAAA ABBBBB BBCAAA ABCBAC ACCBAB BCAAAA 1341 CCAABC BBBAAB ABBABB CCCBCA CCAAAC CCAAAC ABCBAA BCBCCA BBCBCA ABBACB 1361 BACCCB BCAABA BBCCCA AACCBA BABCBB ABBBBB BCCBCA CCBBBC BACCAB BAAAAC 1381 CCABAB BBBBBC BCCBAC BACBBC BABACA

EXIFLIB: <http://www.codeproject.com/Articles/36342/ExifLib-A-Fast-Exif-Data-Extractor-for-NET-2-0>

<http://www.codeproject.com/Articles/43665/ExifLibrary-for-NET>

MP3 Header info: <http://www.codeproject.com/Articles/4235/MP3FileInfo-Extract-Header-and-ID3-Tags-of-an-MP3>

<http://www.codeproject.com/Articles/11175/Extracting-tags-and-details-from-your-MP3-collecti>

<http://massid3lib.sourceforge.net/>

Correct solution:

I have here, following many hours and not talking to anyone, the plaintext for 8B which I am about to take the liberty of submitting using Michelle’s login details. I suppose I should show it to you...

THE GAS WEAPON DEVELOPED BY THE FABULISTS HAD ONE DISTINCTIVE FEATURE – THE STRANGE RED MARKS THAT AFFLICTED EVERYONE AFFECTED BY IT. THIS WAS THEIR UNDOING. I BEGAN TO GATHER ACCOUNTS OF THESE MARKS APPEARING ON THE BODIES OF OUR OWN MEN, AND IT BECAME APPARENT TO ME THAT VALENTINE AND PROTEUS HAD SOLD THE GAS TO OUR ENEMIES. I LABORED FOR MANY YEARS TO GATHER EVIDENCE OF THEIR TREACHERY, BUT THEY WERE SKILLED IN DECEPTION AND I WAS NEVER ABLE TO ESTABLISH THEIR GUILT BEYOND REASONABLE DOUBT. THE FABULISTS PROVED TOO VALUABLE TO THE ESTABLISHMENT AND AN UNEASY TRUCE SETTLED BETWEEN US. THEY WERE UNSURE HOW MUCH I KNEW, AND I WAS UNSURE WHAT RISK THEY POSED TO US BOTH. WHILE THEY COULD NOT BE CERTAIN WHAT PROOF I MIGHT HAVE LODGED WITH A THIRD PARTY THEY DID NOT DARE TAKE ACTION AGAINST ME.  
NOW HOWEVER THEY HAVE GROWN STRONG, WITH INFLUENCE AT THE TOP LEVELS OF GOVERNMENT. I WAS WARNED THAT THEY HAD DECIDED TO TAKE ACTION AGAINST ME AND I WAS FORCED TO FAKE MY OWN DEATH IN ORDER TO ESCAPE THEM. THAT LEFT YOU VULNERABLE, AND SO I HAVE HAD TO PREPARE FOR YOU TO DISAPPEAR AS WELL. I HAVE TAKEN STEPS TO ESTABLISH A NEW IDENTITY AND A NEW LIFE FOR YOU, AND CHARLES HAS ALL THE RESOURCES YOU WILL NEED. WHAT YOU DO WITH THIS NEW START IS UP TO YOU, BUT KNOWING YOU WELL I WOULD URGE YOU TO JOIN MY FRIENDS IN THE INTELLIGENCE SERVICES. THEY HAVE NEED OF PEOPLE LIKE YOU AND WE MAY HAVE THE OPPORTUNITY TO WORK TOGETHER.  
I AM AFRAID THAT I HAVE HAD TO CHOOSE A NEW NAME FOR YOU IN ORDER TO PREPARE THE DOCUMENTS YOU WILL NEED, I HOPE YOU DON’T MIND. I HAVE TAKEN THE OPPORTUNITY TO HONOUR THE COURAGE OF THE YOUNG MAN, HARRY, WHOSE EXECUTION I WITNESSED DURING THE WAR. HE WAS NO COWARD AND IT SEEMS FITTING FOR HIS NAME TO LIVE ON. WITH FONDEST REGARDS,  
  
TIBERIUS

 Let me reassure you that I’m certain that this is the right length and there are no errors that I’ve spotted having read it several times...

The way in was to use frequency analysis on the middle characters from every block of 5 cipher text characters. Given that we know the transposition step reverses the order of every 5 coordinates from the cube this gave a fairly clear indication that if X had coordinates (x,y,z) then E had (z,y,x) and assuming that the final word was Tiberius I also concluded that T was ‘N backwards’ and I was ‘W backwards’ I had to find *many* other relationships between letters and partial coordinates to compare them and slowly fill in the cube...

I’ll tidy up my spreadsheet(s) and send them to you in a separate email