

#### Challenge 4A Answer

My dear Nicholas,

Your Uncle's revelation concerning his work on meteorology begins to explain his move into mathematics following the War. I always wondered why he had left the laboratories and factories, but his experience of industry must have soured as he saw the suffering that new inventions were causing on the battlefields. I have no knowledge of the work he subsequently did, and the few people I have asked have been strangely unable, or perhaps reluctant, to tell me anything of value.

The detective you hired to look into the mysterious figures on the island has contacted me with a report on his investigations. He was able to trace two men who had been making enquiries about your circumstances, but unfortunately they seem to have been alerted to his investigations and left Malta two weeks ago. He has a contact in the shipping company who was able to track their movements via the wireless telegraph, and they disembarked from a commercial ship in Tilbury. At his urging a clerk was assigned to follow them and they were last seen entering a building in Whitehall. I fear that you may be of interest to the government, but I am at a loss to know why. Even having deciphered the fourth section of the will, which again was encrypted using a keyword cipher, it is still not clear how the events of so long ago could pose a risk to you now. On the other hand it is clear that Tiberius did not entirely trust the VERONA agents. I hope that the fifth chapter, which I will leave to you, will begin to explain why.

Kind regards,

Charles

#### Challenge 4B Answer

Plaintext

I have only a hazy recollection of the events of the next few months. The rain fell incessantly and the trenches, and our boots, filled with water. I spent many hours with fingers frozen as I took readings of wind direction and force, and experimented with nozzle designs for our gas weapon. I was haunted by the memory of the dawn firing squad and by the suffering of our troops following the German attack and I was seized by an urgency that blocked all feeling of common humanity with the enemy. The Fabulists had done their job well.

It quickly became apparent to me that forecasting atmospheric conditions would be of crucial importance in determining how and when to use the weapon without unduly jeopardizing our own troops. After several months in the trenches taking measurements I returned to VERONA HQ and began work on a new statistical model of wind movements based on the work of Bayes. You had joined up and been sent to the front by this time, and as I laboured I began to hear tales of your heroism in battle. I was ashamed to be enjoying the comforts of the Chateau, but by then I was obsessed with the belief that my work could end the war quickly and that I might save you and hundreds of thousands of young men like you.

Finally beginning to make progress on the difficult task of analyzing wind patterns I showed my work to Valentine and Proteus and to my surprise they immediately reassigned me to another division.

I can see now that the safe deployment of the weapon was a secondary concern for them and they were preoccupied with the lethal power it would convey. I think they were disappointed that I had failed to engage in the design of new poisons, but I could never do that. I still recalled my horror as I listened to Hahn in Berlin describing the effects of mustard gas. There was something chilling in the contrast between the cold dispassion of a scientific lecture and the vileness of the results he reported, and I could not bring myself to work in the laboratories.

Looking back I can see that the Fabulists needed me out of the way in order to carry out the next step of their plan, however, in reassigning me, the two gentlemen from VERONA had made a very bad mistake.

**Challenge 5A**

DISFL TSFXI GYJLT UGZAM SBBSF IZHHA YIYPJ ZLXIG MAFWE AFOFU HUGTU ZHIXX URIZL IINBX  
SUZGH TIRSB GUZTU GTUGH AFPSZ DUEUZ DIIDH UOIFU JGEAJ ZDTUY GIXEL SJRTH JBUZS LAZGB  
UFSLP OIPAZ DTUGB AMIFH ALAZH FAXHT IZBIF TSBGT UGDIS HTMSG ZAHHT SHAES LAMSF DOJHV  
JGHBA GGUOX PHTIF IGJXH ABEAJ XBXP HUOIF UJGUY BXUIG HTSHH TIESO JKUGH GMIFI UZKAX  
KIDUZ YPUZV JFPSZ DUETI UGLAF FILHH TIZEA FHTIE UFGHH UYIGU ZLIYP IKSLJ SHUAZ EFAYH  
TIOSH HXIEU IXDUT SKISZ IMIZI YPHAE UZDSZ DHAEU RTHUG MAFID JFUZR HTIXA ZRMII WGAEY  
PHFIS HYIZH UZHTI EUIXD TAGBU HSXSH IHSBX IGHTS HUMAJ XDZIK IFOIS FSYFG SRSUZ YPZJF  
GIYUG GOFUH HSUZJ FRIDY IHAHS WILAJ FSRIO JHSXX OFSKI FPMSG RAZID UGGAX KIDOP HTIOJ  
FZUZR BSUZA EHTIL AFFAG UKIRS GZAMU EIIXS ZIMEU FIHTI SZRIF GHUFF IDUZY IOPJZ LXIHU  
OIFUJ GGSLL AJZHF IURZU HUZRY PAXDE URTHU ZRGBU FUHSZ DUTSK IDILU DIDHA HSWIA ZHTIU  
ZKIGH URSHU AZAEH TIESO JKUGH GYPGI XEPAJ GSPHT SHYPI ZIYUI GYSPG HUXZO ISLHU KIUZX  
AZDAZ GAUMU XXIYO SFWAZ HTIZI NHGHI SYIFH AHTIL UHPLA JXDUS GWPAJ HABXI SGISF FSZRI  
SLLAY YADSH UAZEA FYIUM UXXHI XIRFS BTYPH FSKIX BXSZG OPHTI MSPHT ILPBT IFJGI DOPHU  
OIFUJ GUZHT UGHIN HMSGD IKUXU GTXPD UEEUL JXHHA DILFP BHOJH GUZLI MIZAM WZAMH TSHTI  
MSGHF SUZID UZLFP BHAXA RPMIY URTHI NBILH EJHJF ILTSB HIFGH AOIUZ LFISG UZRXP TSFDH  
ADILP BTIFU LAZDJ LHIDY PAMZF IGISF LTSZD DUGLA KIFID HTSHH TUGHP BIMSG EUFGH OFAWI  
ZOPLT SFXIG OSOOS RIHAG SKIPA JHUYY UMUXX HIXXP AJHTS HHTIW IPTSG XIZRH THTFI IPAJF  
GGUZL IFIXP ZULTA XSG

**Challenge 5B**

FIPYR YREBN IASHC NXMBI YCWGQ RKOXM KRCGG MNIZB IYUML QHGFM QSSLS RJYRB YRYXS SDTMC  
XMPVM YQDYV RIAGD LGXXF OEBWM PKPRI MUKWP OUSSV CNXMB INYVR DSAYQ KKRBO VBORL SWRYR  
URSRB EGXIB WIGXX FOIJO QCXXQ YJKIR CGXYC OYXHG DUSSG IVCZO GYWIY ZTYBI LDXFK XRRIK  
OXFYH QYJAY RBSXG YRYVT PYFYL MJSXG OWBOZ CVSNO HZIFY IIQSR URMAR MFKHZ OGMWI YNIND  
HSBML QQWGS PUSLG MLNJM BIAKW RSREM SSVHE SZCEW YMVSM MYVEB FELDE EOMLD LCDEQ USDMV  
WZXYX EJIWG CKJKH YCMUK WRYYQ MENOX FOLMB VMBWM PGFOQ GMEJG IYZSL CMRRM LURMG XFKXT  
KPCXX GXIYX HNBSR OYQRE BSRRO RBOHR YGJYM QDIPW IGXRY FEJSR ROPJS KCXGC SRMBH CBXMK  
ZMSHY XCARE LMIRR ERSQG QLRER AYZCB XFOMP NVCKH DEPQO GPOXZ EXRRI POPYD MMXWF STZOX  
UOILD LCKHK SVYVX WMSBO FPOEI SRENM TSWG YRGVM YQDYV RIELN XFOEP WCBSZ GCMXQ QGSFU  
KWAWS QOVRR ELDLC PEZEP GCXQR EBSQY QMLOH YXHR IGXXC BEADM MXFCD ACORR RIQOE EORAS  
IQDSE OXFOV USXFW CDSIJ NIVZI PSILM IMXXF OGMXX GXILD QCKRR DLYDM UKWGX GPOEQ SREVC  
CXKYQ IBSRR RIRKW IYJZB IYUML QFYDX JOJGO PBKRB QIPWE LRMER GMWQY XHAYQ KERGM ERSSL  
CILMS SBEEQ HZIXF OILQM LOIPC MLYYP SRABI YCMLQ PWCSN RMQDM AKXCN WGQRY VWSXM RGLMG  
IPOEB OTRKX GXXC BGCZG XKROP CQVYZ LGMQC CWYQI QPVMW XFOJY BJGOP BCSDO YPYTC SXFBI  
UWCQO PDSRR YAMBO MXGCW SPOYL DMJYR CGMLD IPIAC NRCCH YIEDD IPXSM XMPOG CSZCN EKOWQ  
KKCDL YDKPS TNOHY XHFYV PSJGO HKORC GEQDL GCGGZ LCBAY CMBSH LYXFK ZCDMK OXMOR HYCKI  
XPSYK ZLGXH CMVWZ XGXXG DEQDL CZPYS RROBR BITOE JOHYM VGWML KPAYR QZMPK GWKXR RIFSK  
FOWRV ITOPQ SRZBM RSWFS RROPJ SKCXG CVIBL CRRID KFSVM QDWCF ILKWR RIDEF JRSFB SPYJK  
IMLFS JFIKO RRSRR RIGWB ARIKO AYCPY SHMEX ZOJMB IKOMA YYJNR MDXYU IGDM L BINYV RSRED  
LCMSL CTGBE AIAYC MKZSQ CMZVI QSRAO MAYYJ NRMDF CCYPO AFYAY CMLFS JFIBO ZCXMD SGMEP  
BDVSC XQYQC YRCYY RCMBQ SDFIP YRYDL CCIAE VGDCG XSSBY LSXUK WQYXG QLRDL YDMFK HLYGF  
KRAOX MDEIO ELIIT SHCXG CGMRR QCSVC KPGJI BDLYD MUYYJ NLYFI RYGMX GCKPK IHGCG MFIPI  
AFSPC SYLNI PDSMU JSBXF OVPOW CKVAR SDWCM GRGXX MDLCX IRGSP USDDV YSXMB WUSXF SRMEV  
GXXCX PGQIL MIQOV TSGCC YLPSP DYKX CVCGG EQMPS WWSR KIMLF IQDME KXGYR QKRWB CAKVC  
VIQCR CCWLO EPVCA YWRIS SSSB PGPIY XHWY YPBINE XYDMM XEKSX RKOCF SPGLG MLGME LXITO  
VDYVE SZCWC QOPDS GYXSL VCNBE WDLYD CMEAG VPZOE ZVIRY JMBKG FIKOM POGCS ZCNER OPCQV  
YWJPY QTOVM XEQEQ KYRGX KKOFY MORYC NBIQV EROVR RERWS LDLYC MPOEB SXGUR CGXFK XRRID  
KFSVM QDWFK HQYQC RSULI AYQCK AYBIM PQWSR ROVCC XGXXF OMPCI ABIRG SPUEL NMDEP JIFCV  
MCFIB DLYDM UKWZO MLQWC XXRYQ WNIYD LGXXF OXPOR ARIQS FMKVB OHRRI ZYERD SDVEL NIPCE  
LNWSB VMERB OHZIA CKVWC SJNMC BWPOX SBRGX KRYXF OJPYR RVMLQ MREVL OHKIX FYYER XQDSD  
SRBSR EKAYI XMOBN YWCDL CPEZE PGCXQ ZPYXW