**Challenge 5 A**

[**The runaway**](http://www.cipher.maths.soton.ac.uk/media/com_cipher/scripts/challenge.php?number=4&part=A&ml=1&iframe=1)

LCAAP, D RLFRTFN XHG KLX GACWBRADOFN GLF ACNDX GACWBVDBBDXW UDTF PXH CBTFN. DG KCB C SHWDXA RDYLFA RUFAT DW AXXV 5. D KXHUN LCJF XIIFAFN GX BFG HY C VFFGDWE KDGL LFA, OHG BLF LCB NDBCYYFCAFN CWN LCBW’G OFFW BFFW BDWRF UCBG IADNCP. GLF VCADWFB BCK LFA UFCJF CG LFA HBHCU GDVF, CWN BLF KCB OXXTFN XHG IXA BXVF UFCJF XW VXWNCP CWN GHFBNCP BX WX XWF WXGDRFN BLF KCB VDBBDWE HWGDU GXNCP. KF BFWG CW XIIDRFA XHG GX LFA HBHCU LCHWGB CWN D KDUU EFG OCRT GX PXH DI KF IDWN CWPGLDWE. KLCG VCNF PXH CBT? NDN PXH LCJF C AFCBXW GX OFUDFJF BLF KCB DWJXUJFN DW BXVFGLDWE?   
  
D GXXT CWXGLFA UXXT CG GLF VFBBCEFB. KFAF PXH AFIFAADWE GX GLF GPYXB? GLF KXAN ACGUDWFB TFFYB OFDWE BYFUG CB ACGDUDWFB. DB GLCG DVYXAGCWG? KLCG NDN PXH VFCW COXHG XHA BXHARF OFDWE RUXBF GX LXVF?   
  
CUBX NDN BXVF NDEEDWE COXHG GLF AFDRLBNXTGXA. BFFVB PXH KFAF ADELG CWN DG AFIFAB GX CW HWNFAEAXHWN WCQD XAECWDBCGDXW NFNDRCGFN GX AFOHDUNDWE GLF AFDRL. VCPOF GLFP GLDWT XI DG CB LFCUDWE? C OHWRL XI ADRL WCQD BPVYCGLDBFAB GXXT XJFA GLF ACGUDWFB IAXV C EAXHY XI BB XIIDRFAB KLX BFG GLFV HY CG GLF GCDU XI GLF KCA CWN LCJF OFFW CRGDJF DW BLDYYDWE BRDFWGDBGB, FWEDWFFAB CWN BXUNDFAB GX GXKWB CRAXBB BXHGL CVFADRC. DI XHA BXHARF LCB DWBDNF DWIXAVCGDXW GLFW VCPOF KF RXHUN DWGFARFYG GLF UDWFB CWN YDRT HY BXVF XI GLF LDEL JCUHF GCAEFGB GLF IAFWRL CAF CIGFA. KLCG KCB “NDF CURLFVDBGFW YAXSFRG”?   
  
GLF FWRUXBFN VFBBCEF KCB LCWNFN GX GLF VCADWFB, OHG GLFP NDNW’G EFG C WCVF. DWDGDCU CWCUPBDB BLXKB DG VHBG OF C JDEFWFAF RDYLFA KDGL YFADXN GKX BX DG BLXHUN OF AFCBXWCOUP BGACDELGIXAKCAN GX RACRT.   
  
CUU GLF OFBG, RLCAUDF

, key=)

Harry, I checked out who transcribed the radio transmission like you asked. It was a junior cipher clerk in Room 5. I would have offered to set up a meeting with her, but she has disappeared and hasn’t been seen since last Friday. The Marines saw her leave at her usual time, and she was booked out for some leave on Monday and Tuesday so no one noticed she was missing until today. We sent an officer out to her usual haunts and I will get back to you if we find anything. What made you ask? Did you have a reason to believe she was involved in something?   
  
I took another look at the messages. Were you referring to the typos? The word Ratlines keeps being spelt as ratilines. Is that important? What did you mean about our source being close to home?   
  
Also did some digging about the Reichsdoktor. Seems you were right and it refers to an underground Nazi organisation dedicated to rebuilding the Reich. Maybe they think of it as healing? A bunch of rich Nazi sympathisers took over the Ratlines from a group of SS officers who set them up at the tail of the war and have been active in shipping scientists, engineers and soldiers to towns across South America. If our source has inside information then maybe we could intercept the lines and pick up some of the high value targets the French are after. What was “Die Alchemisten project”?   
  
The enclosed message was handed to the Marines, but they didn’t get a name. Initial analysis shows it must be a Vigenere cipher with period two so it should be reasonably straightforward to crack.   
  
All the best, Charlie

**Challenge 5 B**

[**Auction House**](http://www.cipher.maths.soton.ac.uk/media/com_cipher/scripts/challenge.php?number=4&part=B&ml=1&iframe=1)

WLHJL VVXLX HQLRR YUPLX WPHEX GWMRR ZMOPE IWLHP RGDXL SQSIE VEIIK SXWHM QXKIX OVIFX RVRJE IUPLR LXLWD QLRRV VXRTR ZHVRR WLHVD XOMQI VFXXB SXRHZ HVNRR ABSXQ LKKXJ IWPXG NCDRG JLRGW RQHSQ ILRWI UIVXL RJLLH LRJXK IUIDX WLHZH VBPHE VXBSX ALPOM QGRRY IQMHR FIWLH VHMFL VHROW SUMIC RYWEN ISSVW HWVMR RRJLX KSZQX GKARY OHWLD XEIZS UXKXR CRYGS LLHEU EEMGS IJLZH LXRGV HHWLR YVEQH IVDRF WIVRQ RYUJU IQGKJ UMHRG WSIUL DTVXK IEVLX LWKAR YOHSE BQRVH SUQDC EIWLH CFEQR RXDJI SUHWS LARRG IULRA WLHCI IHPDF RYWXK EWTHV KESWB SXWKS XPGEV OWLHQ LJBSX ADRWX RSXXE MGCRY UWRGD POIGJ UMHRG WWLHR OIDZH XKIPS QIBMQ YQQDV NIGXU IDWXV BFLPO WLROS FOHVD XWLHJ DVHRG SIXKI SPDXI SUQLR IVLIG VLGKW WVDWV ILALP OPHEY IWLHH HXDMO WLROS FOHVB SXALP OJLRG XKINI BMQHR RRXWV BXRHR YEPHG USVWP ILXZM OPQSW ARVNE QHRYU PLXWP HKDQH ALPOI QHEII SUILX KEVIY IQTUS SIUPB FHKXR

, key=)

The first item in our little auction will be the location of a safe house in the UK sector of Berlin. It is a minor stopover on the Ratlines, but you never know, you might get lucky and find someone interesting hiding there. At the very least you will inconvenience the Reichsdoktor if you take possession of it. How much would that be worth to you? Do I hear a bid of five hundred thousand francs from our French friends? Perhaps the British would pay more? Or maybe they cannot afford to? I wonder how they feel about that? Perhaps you should ask them. If you want to outbid your so-called friends then leave the money, in unmarked treasury bills, in locker 157 at the far end of the platform in Friedrichstrasse. I will leave the details in locker 159. You will find the key in 157. Do not try to double cross me, it will not work and our little game will end before it has even properly begun.