PROJECT 1:

CRYPTANALYSIS

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AND

CHRISTIAN SOTO

ECE571 – FUNDAMENTALS OF INFORMATION AND NETWORK SECURITY

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DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

UNIVERSITY OF ARIZONA

OUTLINE

INTRO

SHIFT CIPHER

SUBSTITUTION CIPHER

VIGENERE CIPHER

PERMUTATION CIPHER

ONE-TIME PAD

LOGIC AND ALGORITHM

CIPHER-CRACKING PROGRAM

STATISTICAL ANALYSIS METHODS

FREQENCY ANALYSIS

INDEX OF COINCIDENCE?!

DECRYPTION FUNCTION(S)

APPENDIX

CIPHER1

ENCRYPTION: Shift Cipher

CIPHERTEXT: see cipher1.txt

KEY: **13**

PLAINTEXT: (first 5 lines) LET ME BEGIN BY SAYING THANKS TO ALL YOU WHOVE TRAVELED FROM FAR AND WIDE TO BRAVE THE COLD TODAY WE ALL MADE THIS JOURNEY FOR A REASON IT SHUMBLING BUT IN MY HEART I KNOW YOU DIDN’T COME HERE JUST FOR ME YOU CAME HERE BECAUSE YOU BELIEVE IN WHAT THIS COUNTRY CAN BE IN THE FACE OF WAR YOU BELIEVE THERE CAN BE PEACE IN THE FACE OF DESPAIR YOU BELIEVE THERE CAN BE HOPE IN THE FACE OF A POLITICS THAT’S SHUT YOU OUT THAT’S TOLD YOU TO SETTLE THAT’S DIVIDED US FOR TOO LONG YOU BELIEVE WE CAN BE ONE PEOPLE REACHING FOR WHATS POSSIBLE BUILDING THAT MORE PERFECT UNION T…

CIPHER2

ENCRYPTION: Substitution Cipher

CIPHERTEXT: see cipher2.txt

KEY: **ZMAYTXLPRSBWEFQCIUDGHJKNOV**

PLAINTEXT: WETHEPEOPLEOFTHEUNITEDSTATESINORDERTOFORMAMOREPERFECTUNIONESTABLISHJUSTICEINSUREDOMESTICTRANQUILITYPROVIDEFORTHECOMMONDEFENCEPROMOTETHEGENERALWELFAREANDSECURETHEBLESSINGSOFLIBERTYTOOURSELVESANDOURPOSTERITYDOORDAINANDESTABLISHTHISCONSTITUTIONFORTHEUNITEDSTATESOFAMERICAARTICLEISECTIONALLLEGISLATIVEPOWERSHEREINGRANTEDSHALLBEVESTEDINACONGRESSOFTHEUNITEDSTATESWHICHSHALLCONSISTOFASENATEANDHOUSEOFREPRESENTATIVESSECTIONTHEHOUSEOFREPRESENTATIVESSHALLBECOMPOSEDOFMEMBERSCHOSENEVERYSECONDYEARBYTHEPEOPLEOFTHESEVERALSTATESANDTHEELECTORSINEACHSTATESHALLHAVETHEQUALIFICATIONSREQUISITEFORELECTORSOFTHEMOSTNUMEROUSBRANCHOFTHESTATELEGISLATURENOPERSONSHALLBEAREPRESENTATIVEWHOSHALLNOTHAVEATTAINEDTOTHEAGEOFTWENTYFIVEYEARSANDBEENSEVENYEARSACITIZENOFTHEUNITEDSTATESANDWHOSHALLNOTWHENELECTEDBEANINHABITANTOFTHATSTATEINWHICHHESHALLBECHOSENREPRESENTATIVESANDDIRECTTAXESSHALLBEAPPORTIONEDAMONGTHESEVERALSTATESWHICHMAYBEINCLUDEDWITHINTHISUNIONACCORDINGTOTHEIRRESPECTIVENUMBERSWHICHSHALLBEDETERMINEDBYADDINGTOTHEWHOLENUMBEROFFREEPERSONSINCLUDINGTHOSEBOUNDTOSERVICEFORATERMOFYEARSANDEXCLUDINGINDIANSNOTTAXEDTHREEFIFTHSOFALLOTHERPERSONSTHEACTUALENUMERATIONSHALLBEMADEWITHINTHREEYEARSAFTERTHEFIRSTMEETINGOFTHECONGRESSOFTHEUNITEDSTATESANDWITHINEVERYSUBSEQUENTTERMOFTENYEARSINSUCHMANNERASTHEYSHALLBYLAWDIRECTTHENUMBEROFREPRESENTATIVESSHALLNOTEXCEEDONEFOREVERYTHIRTYTHOUSANDBUTEACHSTATESHALLHAVEATLEASTONEREPRESENTATIVEANDUNTILSUCHENUMERATIONSHALLBEMADETHESTATEOFNEWHAMPSHIRESHALLBEENTITLEDTOCHOOSETHREEMASSACHUSETTSEIGHTRHODEISLANDANDPROVIDENCEPLANTATIONSONECONNECTICUTFIVENEWYORKSIXNEWJERSEYFOURPENNSYLVANIAEIGHTDELAWAREONEMARYLANDSIXVIRGINIATENNORTHCAROLINAFIVESOUTHCAROLINAFIVEANDGEORGIATHREEWHENVACANCIESHAPPENINTHEREPRESENTATIONFROMANYSTATETHEEXECUTIVEAUTHORITYTHEREOFSHALLISSUEWRITSOFELECTIONTOFILLSUCHVACANCIESTHEHOUSEOFREPRESENTATIVESSHALLCHOOSETHEIRSPEAKERANDOTHEROFFICERSANDSHALLHAVETHESOLEPOWEROFIMPEACHMENTSECTIONTHESENATEOFTHEUNITEDSTATESSHALLBECOMPOSEDOFTWOSENATORSFROMEACHSTATECHOSENBYTHELEGISLATURETHEREOFFORSIXYEARSANDEACHSENATORSHALLHAVEONEVOTEIMMEDIATELYAFTERTHEYSHALLBEASSEMBLEDINCONSEQUENCEOFTHEFIRSTELECTIONTHEYSHALLBEDIVIDEDASEQUALLYASMAYBEINTOTHREECLASSESTHESEATSOFTHESENATORSOFTHEFIRSTCLASSSHALLBEVACATEDATTHEEXPIRATIONOFTHESECONDYEAROFTHESECONDCLASSATTHEEXPIRATIONOFTHEFOURTHYEARANDOFTHETHIRDCLASSATTHEEXPIRATIONOFTHESIXTHYEARSOTHATONETHIRDMAYBECHOSENEVERYSECONDYEARANDIFVACANCIESHAPPENBYRESIGNATIONOROTHERWISEDURINGTHERECESSOFTHELEGISLATUREOFANYSTATETHEEXECUTIVETHEREOFMAYMAKETEMPORARYAPPOINTMENTSUNTILTHENEXTMEETINGOFTHELEGISLATUREWHICHSHALLTHENFILLSUCHVACANCIESNOPERSONSHALLBEASENATORWHOSHALLNOTHAVEATTAINEDTOTHEAGEOFTHIRTYYEARSANDBEENNINEYEARSACITIZENOFTHEUNITEDSTATESANDWHOSHALLNOTWHENELECTEDBEANINHABITANTOFTHATSTATEFORWHICHHESHALLBECHOSENTHEVICEPRESIDENTOFTHEUNITEDSTATESSHALLBEPRESIDENTOFTHESENATEBUTSHALLHAVENOVOTEUNLESSTHEYBEEQUALLYDIVIDEDTHESENATESHALLCHOOSETHEIROTHEROFFICERSANDALSOAPRESIDENTPROTEMPOREINTHEABSENCEOFTHEVICEPRESIDENTORWHENHESHALLEXERCISETHEOFFICEOFPRESIDENTOFTHEUNITEDSTATESTHESENATESHALLHAVETHESOLEPOWERTOTRYALLIMPEACHMENTSWHENSITTINGFORTHATPURPOSETHEYSHALLBEONOATHORAFFIRMATIONWHENTHEPRESIDENTOFTHEUNITEDSTATESISTRIEDTHECHIEFJUSTICESHALLPRESIDEANDNOPERSONSHALLBECONVICTEDWITHOUTTHECONCURRENCEOFTWOTHIRDSOFTHEMEMBERSPRESENTJUDGMENTINCASESOFIMPEACHMENTSHALLNOTEXTENDFURTHERTHANTOREMOVALFROMOFFICEANDDISQUALIFICATIONTOHOLDANDENJOYANYOFFICEOFHONORTRUSTORPROFITUNDERTHEUNITEDSTATESBUTTHEPARTYCONVICTEDSHALLNEVERTHELESSBELIABLEANDSUBJECTTOINDICTMENTTRIALJUDGMENTANDPUNISHMENTACCORDINGTOLAWSECTIONTHETIMESPLACESANDMANNEROFHOLDINGELECTIONSFORSENATORSANDREPRESENTATIVESSHALLBEPRESCRIBEDINEACHSTATEBYTHELEGISLATURETHEREOFBUTTHECONGRESSMAYATANYTIMEBYLAWMAKEORALTERSUCHREGULATIONSEXCEPTASTOTHEPLACEOFCHOOSINGSENATORSTHECONGRESSSHALLASSEMBLEATLEASTONCEINEVERYYEARANDSUCHMEETINGSHALLBEONTHEFIRSTMONDAYINDECEMBERUNLESSTHEYSHALLBYLAWAPPOINTADIFFERENTDAYSECTIONEACHHOUSESHALLBETHEJUDGEOFTHEELECTIONSRETURNSANDQUALIFICATIONSOFITSOWNMEMBERSANDAMAJORITYOFEACHSHALLCONSTITUTEAQUORUMTODOBUSINESSBUTASMALLERNUMBERMAYADJOURNFROMDAYTODAYANDMAYBEAUTHORIZEDTOCOMPELTHEATTENDANCEOFABSENTMEMBERSINSUCHMANNERANDUNDERSUCHPENALTIESASEACHHOUSEMAYPROVIDEEACHHOUSEMAYDETERMINETHERULESOFITSPROCEEDINGSPUNISHITSMEMBERSFORDISORDERLYBEHAVIORANDWITHTHECONCURRENCEOFTWOTHIRDSEXPELAMEMBEREACHHOUSESHALLKEEPAJOURNALOFITSPROCEEDINGSANDFROMTIMETOTIMEPUBLISHTHESAMEEXCEPTINGSUCHPARTSASMAYINTHEIRJUDGMENTREQUIRESECRECYANDTHEYEASANDNAYSOFTHEMEMBERSOFEITHERHOUSEONANYQUESTIONSHALLATTHEDESIREOFONEFIFTHOFTHOSEPRESENTBEENTEREDONTHEJOURNALNEITHERHOUSEDURINGTHESESSIONOFCONGRESSSHALLWITHOUTTHECONSENTOFTHEOTHERADJOURNFORMORETHANTHREEDAYSNORTOANYOTHERPLACETHANTHATINWHICHTHETWOHOUSESSHALLBESITTINGSECTIONTHESENATORSANDREPRESENTATIVESSHALLRECEIVEACOMPENSATIONFORTHEIRSERVICESTOBEASCERTAINEDBYLAWANDPAIDOUTOFTHETREASURYOFTHEUNITEDSTATESTHEYSHALLINALLCASESEXCEPTTREASONFELONYANDBREACHOFTHEPEACEBEPRIVILEGEDFROMARRESTDURINGTHEIRATTENDANCEATTHESESSIONOFTHEIRRESPECTIVEHOUSESANDINGOINGTOANDRETURNINGFROMTHESAMEANDFORANYSPEECHORDEBATEINEITHERHOUSETHEYSHALLNOTBEQUESTIONEDINANYOTHERPLACENOSENATORORREPRESENTATIVESHALLDURINGTHETIMEFORWHICHHEWASELECTEDBEAPPOINTEDTOANYCIVILOFFICEUNDERTHEAUTHORITYOFTHEUNITEDSTATESWHICHSHALLHAVEBEENCREATEDORTHEEMOLUMENTSWHEREOFSHALLHAVEBEENINCREASEDDURINGSUCHTIMEANDNOPERSONHOLDINGANYOFFICEUNDERTHEUNITEDSTATESSHALLBEAMEMBEROFEITHERHOUSEDURINGHISCONTINUANCEINOFFICESECTIONALLBILLSFORRAISINGREVENUESHALLORIGINATEINTHEHOUSEOFREPRESENTATIVESBUTTHESENATEMAYPROPOSEORCONCURWITHAMENDMENTSASONOTHERBILLSEVERYBILLWHICHSHALLHAVEPASSEDTHEHOUSEOFREPRESENTATIVESANDTHESENATESHALLBEFOREITBECOMEALAWBEPRESENTEDTOTHEPRESIDENTOFTHEUNITEDSTATESIFHEAPPROVEHESHALLSIGNITBUTIFNOTHESHALLRETURNITWITHHISOBJECTIONSTOTHATHOUSEINWHICHITSHALLHAVEORIGINATEDWHOSHALLENTERTHEOBJECTIONSATLARGEONTHEIRJOURNALANDPROCEEDTORECONSIDERITIFAFTERSUCHRECONSIDERATIONTWOTHIRDSOFTHATHOUSESHALLAGREETOPASSTHEBILLITSHALLBESENTTOGETHERWITHTHEOBJECTIONSTOTHEOTHERHOUSEBYWHICHITSHALLLIKEWISEBERECONSIDEREDANDIFAPPROVEDBYTWOTHIRDSOFTHATHOUSEITSHALLBECOMEALAWBUTINALLSUCHCASESTHEVOTESOFBOTHHOUSESSHALLBEDETERMINEDBYYEASANDNAYSANDTHENAMESOFTHEPERSONSVOTINGFORANDAGAINSTTHEBILLSHALLBEENTEREDONTHEJOURNALOFEACHHOUSERESPECTIVELYIFANYBILLSHALLNOTBERETURNEDBYTHEPRESIDENTWITHINTENDAYSSUNDAYSEXCEPTEDAFTERITSHALLHAVEBEENPRESENTEDTOHIMTHESAMESHALLBEALAWINLIKEMANNERASIFHEHADSIGNEDITUNLESSTHECONGRESSBYTHEIRADJOURNMENTPREVENTITSRETURNINWHICHCASEITSHALLNOTBEALAWEVERYORDERRESOLUTIONORVOTETOWHICHTHECONCURRENCEOFTHESENATEANDHOUSEOFREPRESENTATIVESMAYBENECESSARYEXCEPTONAQUESTIONOFADJOURNMENTSHALLBEPRESENTEDTOTHEPRESIDENTOFTHEUNITEDSTATESANDBEFORETHESAMESHALLTAKEEFFECTSHALLBEAPPROVEDBYHIMORBEINGDISAPPROVEDBYHIMSHALLBEREPASSEDBYTWOTHIRDSOFTHESENATEANDHOUSEOFREPRESENTATIVESACCORDINGTOTHERULESANDLIMITATIONSPRESCRIBEDINTHECASEOFABILLSECTIONTHECONGRESSSHALLHAVEPOWERTOLAYANDCOLLECTTAXESDUTIESIMPOSTSANDEXCISESTOPAYTHEDEBTSANDPROVIDEFORTHECOMMONDEFENCEANDGENERALWELFAREOFTHEUNITEDSTATESBUTALLDUTIESIMPOSTSANDEXCISESSHALLBEUNIFORMTHROUGHOUTTHEUNITEDSTATESTOBORROWMONEYONTHECREDITOFTHEUNITEDSTATESTOREGULATECOMMERCEWITHFOREIGNNATIONSANDAMONGTHESEVERALSTATESANDWITHTHEINDIANTRIBESTOESTABLISHANUNIFORMRULEOFNATURALIZATIONANDUNIFORMLAWSONTHESUBJECTOFBANKRUPTCIESTHROUGHOUTTHEUNITEDSTATESTOCOINMONEYREGULATETHEVALUETHEREOFANDOFFOREIGNCOINANDFIXTHESTANDARDOFWEIGHTSANDMEASURESTOPROVIDEFORTHEPUNISHMENTOFCOUNTERFEITINGTHESECURITIESANDCURRENTCOINOFTHEUNITEDSTATESTOESTABLISHPOSTOFFICESANDPOSTROADSTOPROMOTETHEPROGRESSOFSCIENCEANDUSEFULARTSBYSECURINGFORLIMITEDTIMESTOAUTHORSANDINVENTORSTHEEXCLUSIVERIGHTTOTHEIRRESPECTIVEWRITINGSANDDISCOVERIESTOCONSTITUTETRIBUNALSINFERIORTOTHESUPREMECOURTTODEFINEANDPUNISHPIRACIESANDFELONIESCOMMITTEDONTHEHIGHSEASANDOFFENSESAGAINSTTHELAWOFNATIONSTODECLAREWARGRANTLETTERSOFMARQUEANDREPRISALANDMAKERULESCONCERNINGCAPTURESONLANDANDWATERTORAISEANDSUPPORTARMIESBUTNOAPPROPRIATIONOFMONEYTOTHATUSESHALLBEFORALONGERTERMTHANTWOYEARSTOPROVIDEANDMAINTAINANAVYTOMAKERULESFORTHEGOVERNMENTANDREGULATIONOFTHELANDANDNAVALFORCESTOPROVIDEFORCALLINGFORTHTHEMILITIATOEXECUTETHELAWSOFTHEUNIONSUPPRESSINSURRECTIONSANDREPELINVASIONSTOPROVIDEFORORGANIZINGARMINGANDDISCIPLININGTHEMILITIAANDFORGOVERNINGSUCHPARTOFTHEMASMAYBEEMPLOYEDINTHESERVICEOFTHEUNITEDSTATESRESERVINGTOTHESTATESRESPECTIVELYTHEAPPOINTMENTOFTHEOFFICERSANDTHEAUTHORITYOFTRAININGTHEMILITIAACCORDINGTOTHEDISCIPLINEPRESCRIBEDBYCONGRESSTOEXERCISEEXCLUSIVELEGISLATIONINALLCASESWHATSOEVEROVERSUCHDISTRICTNOTEXCEEDINGTENMILESSQUAREASMAYBYCESSIONOFPARTICULARSTATESANDTHEACCEPTANCEOFCONGRESSBECOMETHESEATOFTHEGOVERNMENTOFTHEUNITEDSTATESANDTOEXERCISELIKEAUTHORITYOVERALLPLACESPURCHASEDBYTHECONSENTOFTHELEGISLATUREOFTHESTATEINWHICHTHESAMESHALLBEFORTHEERECTIONOFFORTSMAGAZINESARSENALSDOCKYARDSANDOTHERNEEDFULBUILDINGSANDTOMAKEALLLAWSWHICHSHALLBENECESSARYANDPROPERFORCARRYINGINTOEXECUTIONTHEFOREGOINGPOWERSANDALLOTHERPOWERSVESTEDBYTHISCONSTITUTIONINTHEGOVERNMENTOFTHEUNITEDSTATESORINANYDEPARTMENTOROFFICERTHEREOFSECTIONTHEMIGRATIONORIMPORTATIONOFSUCHPERSONSASANYOFTHESTATESNOWEXISTINGSHALLTHINKPROPERTOADMITSHALLNOTBEPROHIBITEDBYTHECONGRESSPRIORTOTHEYEARONETHOUSANDEIGHTHUNDREDANDEIGHTBUTATAXORDUTYMAYBEIMPOSEDONSUCHIMPORTATIONNOTEXCEEDINGTENDOLLARSFOREACHPERSONTHEPRIVILEGEOFTHEWRITOFHABEASCORPUSSHALLNOTBESUSPENDEDUNLESSWHENINCASESOFREBELLIONORINVASIONTHEPUBLICSAFETYMAYREQUIREITNOBILLOFATTAINDEROREXPOSTFACTOLAWSHALLBEPASSEDNOCAPITATIONOROTHERDIRECTTAXSHALLBELAIDUNLESSINPROPORTIONTOTHECENSUSORENUMERATIONHEREINBEFOREDIRECTEDTOBETAKENNOTAXORDUTYSHALLBELAIDONARTICLESEXPORTEDFROMANYSTATENOPREFERENCESHALLBEGIVENBYANYREGULATIONOFCOMMERCEORREVENUETOTHEPORTSOFONESTATEOVERTHOSEOFANOTHERNORSHALLVESSELSBOUNDTOORFROMONESTATEBEOBLIGEDTOENTERCLEARORPAYDUTIESINANOTHERNOMONEYSHALLBEDRAWNFROMTHETREASURYBUTINCONSEQUENCEOFAPPROPRIATIONSMADEBYLAWANDAREGULARSTATEMENTANDACCOUNTOFTHERECEIPTSANDEXPENDITURESOFALLPUBLICMONEYSHALLBEPUBLISHEDFROMTIMETOTIMENOTITLEOFNOBILITYSHALLBEGRANTEDBYTHEUNITEDSTATESANDNOPERSONHOLDINGANYOFFICEOFPROFITORTRUSTUNDERTHEMSHALLWITHOUTTHECONSENTOFTHECONGRESSACCEPTOFANYPRESENTEMOLUMENTOFFICEORTITLEOFANYKINDWHATEVERFROMANYKINGPRINCEORFOREIGNSTATESECTIONNOSTATESHALLENTERINTOANYTREATYALLIANCEORCONFEDERATIONGRANTLETTERSOFMARQUEANDREPRISALCOINMONEYEMITBILLSOFCREDITMAKEANYTHINGBUTGOLDANDSILVERCOINATENDERINPAYMENTOFDEBTSPASSANYBILLOFATTAINDEREXPOSTFACTOLAWORLAWIMPAIRINGTHEOBLIGATIONOFCONTRACTSORGRANTANYTITLEOFNOBILITYNOSTATESHALLWITHOUTTHECONSENTOFTHECONGRESSLAYANYIMPOSTSORDUTIESONIMPORTSOREXPORTSEXCEPTWHATMAYBEABSOLUTELYNECESSARYFOREXECUTINGITSINSPECTIONLAWSANDTHENETPRODUCEOFALLDUTIESANDIMPOSTSLAIDBYANYSTATEONIMPORTSOREXPORTSSHALLBEFORTHEUSEOFTHETREASURYOFTHEUNITEDSTATESANDALLSUCHLAWSSHALLBESUBJECTTOTHEREVISIONANDCONTROLOFTHECONGRESSNOSTATESHALLWITHOUTTHECONSENTOFCONGRESSLAYANYDUTYOFTONNAGEKEEPTROOPSORSHIPSOFWARINTIMEOFPEACEENTERINTOANYAGREEMENTORCOMPACTWITHANOTHERSTATEORWITHAFOREIGNPOWERORENGAGEINWARUNLESSACTUALLYINVADEDORINSUCHIMMINENTDANGERASWILLNOTADMITOFDELAYARTICLEIISECTIONTHEEXECUTIVEPOWERSHALLBEVESTEDINAPRESIDENTOFTHEUNITEDSTATESOFAMERICAHESHALLHOLDHISOFFICEDURINGTHETERMOFFOURYEARSANDTOGETHERWITHTHEVICEPRESIDENTCHOSENFORTHESAMETERMBEELECTEDASFOLLOWSEACHSTATESHALLAPPOINTINSUCHMANNERASTHELEGISLATURETHEREOFMAYDIRECTANUMBEROFELECTORSEQUALTOTHEWHOLENUMBEROFSENATORSANDREPRESENTATIVESTOWHICHTHESTATEMAYBEENTITLEDINTHECONGRESSBUTNOSENATORORREPRESENTATIVEORPERSONHOLDINGANOFFICEOFTRUSTORPROFITUNDERTHEUNITEDSTATESSHALLBEAPPOINTEDANELECTORTHEELECTORSSHALLMEETINTHEIRRESPECTIVESTATESANDVOTEBYBALLOTFORTWOPERSONSOFWHOMONEATLEASTSHALLNOTLIEANINHABITANTOFTHESAMESTATEWITHTHEMSELVESANDTHEYSHALLMAKEALISTOFALLTHEPERSONSVOTEDFORANDOFTHENUMBEROFVOTESFOREACHWHICHLISTTHEYSHALLSIGNANDCERTIFYANDTRANSMITSEALEDTOTHESEATOFTHEGOVERNMENTOFTHEUNITEDSTATESDIRECTEDTOTHEPRESIDENTOFTHESENATETHEPRESIDENTOFTHESENATESHALLINTHEPRESENCEOFTHESENATEANDHOUSEOFREPRESENTATIVESOPENALLTHECERTIFICATESANDTHEVOTESSHALLTHENBECOUNTEDTHEPERSONHAVINGTHEGREATESTNUMBEROFVOTESSHALLBETHEPRESIDENTIFSUCHNUMBERBEAMAJORITYOFTHEWHOLENUMBEROFELECTORSAPPOINTEDANDIFTHEREBEMORETHANONEWHOHAVESUCHMAJORITYANDHAVEANEQUALNUMBEROFVOTESTHENTHEHOUSEOFREPRESENTATIVESSHALLIMMEDIATELYCHOOSEBYBALLOTONEOFTHEMFORPRESIDENTANDIFNOPERSONHAVEAMAJORITYTHENFROMTHEFIVEHIGHESTONTHELISTTHESAIDHOUSESHALLINLIKEMANNERCHOOSETHEPRESIDENTBUTINCHOOSINGTHEPRESIDENTTHEVOTESSHALLBETAKENBYSTATESTHEREPRESENTATIONFROMEACHSTATEHAVINGONEVOTEAQUORUMFORTHISPURPOSESHALLCONSISTOFAMEMBERORMEMBERSFROMTWOTHIRDSOFTHESTATESANDAMAJORITYOFALLTHESTATESSHALLBENECESSARYTOACHOICEINEVERYCASEAFTERTHECHOICEOFTHEPRESIDENTTHEPERSONHAVINGTHEGREATESTNUMBEROFVOTESOFTHEELECTORSSHALLBETHEVICEPRESIDENTBUTIFTHERESHOULDREMAINTWOORMOREWHOHAVEEQUALVOTESTHESENATESHALLCHOOSEFROMTHEMBYBALLOTTHEVICEPRESIDENTTHECONGRESSMAYDETERMINETHETIMEOFCHOOSINGTHEELECTORSANDTHEDAYONWHICHTHEYSHALLGIVETHEIRVOTESWHICHDAYSHALLBETHESAMETHROUGHOUTTHEUNITEDSTATESNOPERSONEXCEPTANATURALBORNCITIZENORACITIZENOFTHEUNITEDSTATESATTHETIMEOFTHEADOPTIONOFTHISCONSTITUTIONSHALLBEELIGIBLETOTHEOFFICEOFPRESIDENTNEITHERSHALLANYPERSONBEELIGIBLETOTHATOFFICEWHOSHALLNOTHAVEATTAINEDTOTHEAGEOFTHIRTYFIVEYEARSANDBEENFOURTEENYEARSARESIDENTWITHINTHEUNITEDSTATESINCASEOFTHEREMOVALOFTHEPRESIDENTFROMOFFICEOROFHISDEATHRESIGNATIONORINABILITYTODISCHARGETHEPOWERSANDDUTIESOFTHESAIDOFFICETHESAMESHALLDEVOLVEONTHEVICEPRESIDENTANDTHECONGRESSMAYBYLAWPROVIDEFORTHECASEOFREMOVALDEATHRESIGNATIONORINABILITYBOTHOFTHEPRESIDENTANDVICEPRESIDENTDECLARINGWHATOFFICERSHALLTHENACTASPRESIDENTANDSUCHOFFICERSHALLACTACCORDINGLYUNTILTHEDISABILITYBEREMOVEDORAPRESIDENTSHALLBEELECTEDTHEPRESIDENTSHALLATSTATEDTIMESRECEIVEFORHISSERVICESACOMPENSATIONWHICHSHALLNEITHERBEINCREASEDNORDIMINISHEDDURINGTHEPERIODFORWHICHHESHALLHAVEBEENELECTEDANDHESHALLNOTRECEIVEWITHINTHATPERIODANYOTHEREMOLUMENTFROMTHEUNITEDSTATESORANYOFTHEMBEFOREHEENTERONTHEEXECUTIONOFHISOFFICEHESHALLTAKETHEFOLLOWINGOATHORAFFIRMATIONIDOSOLEMNLYSWEARORAFFIRMTHATIWILLFAITHFULLYEXECUTETHEOFFICEOFPRESIDENTOFTHEUNITEDSTATESANDWILLTOTHEBESTOFMYABILITYPRESERVEPROTECTANDDEFENDTHECONSTITUTIONOFTHEUNITEDSTATESSECTIONTHEPRESIDENTSHALLBECOMMANDERINCHIEFOFTHEARMYANDNAVYOFTHEUNITEDSTATESANDOFTHEMILITIAOFTHESEVERALSTATESWHENCALLEDINTOTHEACTUALSERVICEOFTHEUNITEDSTATESHEMAYREQUIRETHEOPINIONINWRITINGOFTHEPRINCIPALOFFICERINEACHOFTHEEXECUTIVEDEPARTMENTSUPONANYSUBJECTRELATINGTOTHEDUTIESOFTHEIRRESPECTIVEOFFICESANDHESHALLHAVEPOWERTOGRANTREPRIEVESANDPARDONSFOROFFENSESAGAINSTTHEUNITEDSTATESEXCEPTINCASESOFIMPEACHMENTHESHALLHAVEPOWERBYANDWITHTHEADVICEANDCONSENTOFTHESENATETOMAKETREATIESPROVIDEDTWOTHIRDSOFTHESENATORSPRESENTCONCURANDHESHALLNOMINATEANDBYANDWITHTHEADVICEANDCONSENTOFTHESENATESHALLAPPOINTAMBASSADORSOTHERPUBLICMINISTERSANDCONSULSJUDGESOFTHESUPREMECOURTANDALLOTHEROFFICERSOFTHEUNITEDSTATESWHOSEAPPOINTMENTSARENOTHEREINOTHERWISEPROVIDEDFORANDWHICHSHALLBEESTABLISHEDBYLAWBUTTHECONGRESSMAYBYLAWVESTTHEAPPOINTMENTOFSUCHINFERIOROFFICERSASTHEYTHINKPROPERINTHEPRESIDENTALONEINTHECOURTSOFLAWORINTHEHEADSOFDEPARTMENTSTHEPRESIDENTSHALLHAVEPOWERTOFILLUPALLVACANCIESTHATMAYHAPPENDURINGTHERECESSOFTHESENATEBYGRANTINGCOMMISSIONSWHICHSHALLEXPIREATTHEENDOFTHEIRNEXTSESSIONSECTIONHESHALLFROMTIMETOTIMEGIVETOTHECONGRESSINFORMATIONOFTHESTATEOFTHEUNIONANDRECOMMENDTOTHEIRCONSIDERATIONSUCHMEASURESASHESHALLJUDGENECESSARYANDEXPEDIENTHEMAYONEXTRAORDINARYOCCASIONSCONVENEBOTHHOUSESOREITHEROFTHEMANDINCASEOFDISAGREEMENTBETWEENTHEMWITHRESPECTTOTHETIMEOFADJOURNMENTHEMAYADJOURNTHEMTOSUCHTIMEASHESHALLTHINKPROPERHESHALLRECEIVEAMBASSADORSANDOTHERPUBLICMINISTERSHESHALLTAKECARETHATTHELAWSBEFAITHFULLYEXECUTEDANDSHALLCOMMISSIONALLTHEOFFICERSOFTHEUNITEDSTATESSECTIONTHEPRESIDENTVICEPRESIDENTANDALLCIVILOFFICERSOFTHEUNITEDSTATESSHALLBEREMOVEDFROMOFFICEONIMPEACHMENTFORANDCONVICTIONOFTREASONBRIBERYOROTHERHIGHCRIMESANDMISDEMEANORSARTICLEIIISECTIONTHEJUDICIALPOWEROFTHEUNITEDSTATESSHALLBEVESTEDINONESUPREMECOURTANDINSUCHINFERIORCOURTSASTHECONGRESSMAYFROMTIMETOTIMEORDAINANDESTABLISHTHEJUDGESBOTHOFTHESUPREMEANDINFERIORCOURTSSHALLHOLDTHEIROFFICESDURINGGOODBEHAVIORANDSHALLATSTATEDTIMESRECEIVEFORTHEIRSERVICESACOMPENSATIONWHICHSHALLNOTBEDIMINISHEDDURINGTHEIRCONTINUANCEINOFFICESECTIONTHEJUDICIALPOWERSHALLEXTENDTOALLCASESINLAWANDEQUITYARISINGUNDERTHISCONSTITUTIONTHELAWSOFTHEUNITEDSTATESANDTREATIESMADEORWHICHSHALLBEMADEUNDERTHEIRAUTHORITYTOALLCASESAFFECTINGAMBASSADORSOTHERPUBLICMINISTERSANDCONSULSTOALLCASESOFADMIRALTYANDMARITIMEJURISDICTIONTOCONTROVERSIESTOWHICHTHEUNITEDSTATESSHALLBEAPARTYTOCONTROVERSIESBETWEENTWOORMORESTATESBETWEENASTATEANDCITIZENSOFANOTHERSTATEBETWEENCITIZENSOFDIFFERENTSTATESBETWEENCITIZENSOFTHESAMESTATECLAIMINGLANDSUNDERGRANTSOFDIFFERENTSTATESANDBETWEENASTATEORTHECITIZENSTHEREOFANDFOREIGNSTATESCITIZENSORSUBJECTSINALLCASESAFFECTINGAMBASSADORSOTHERPUBLICMINISTERSANDCONSULSANDTHOSEINWHICHASTATESHALLBEPARTYTHESUPREMECOURTSHALLHAVEORIGINALJURISDICTIONINALLTHEOTHERCASESBEFOREMENTIONEDTHESUPREMECOURTSHALLHAVEAPPELLATEJURISDICTIONBOTHASTOLAWANDFACTWITHSUCHEXCEPTIONSANDUNDERSUCHREGULATIONSASTHECONGRESSSHALLMAKETHETRIALOFALLCRIMESEXCEPTINCASESOFIMPEACHMENTSHALLBEBYJURYANDSUCHTRIALSHALLBEHELDINTHESTATEWHERETHESAIDCRIMESSHALLHAVEBEENCOMMITTEDBUTWHENNOTCOMMITTEDWITHINANYSTATETHETRIALSHALLBEATSUCHPLACEORPLACESASTHECONGRESSMAYBYLAWHAVEDIRECTEDSECTIONTREASONAGAINSTTHEUNITEDSTATESSHALLCONSISTONLYINLEVYINGWARAGAINSTTHEMORINADHERINGTOTHEIRENEMIESGIVINGTHEMAIDANDCOMFORTNOPERSONSHALLBECONVICTEDOFTREASONUNLESSONTHETESTIMONYOFTWOWITNESSESTOTHESAMEOVERTACTORONCONFESSIONINOPENCOURTTHECONGRESSSHALLHAVEPOWERTODECLARETHEPUNISHMENTOFTREASONBUTNOATTAINDEROFTREASONSHALLWORKCORRUPTIONOFBLOODORFORFEITUREEXCEPTDURINGTHELIFEOFTHEPERSONATTAINTEDARTICLEIVSECTIONFULLFAITHANDCREDITSHALLBEGIVENINEACHSTATETOTHEPUBLICACTSRECORDSANDJUDICIALPROCEEDINGSOFEVERYOTHERSTATEANDTHECONGRESSMAYBYGENERALLAWSPRESCRIBETHEMANNERINWHICHSUCHACTSRECORDSANDPROCEEDINGSSHALLBEPROVEDANDTHEEFFECTTHEREOFSECTIONTHECITIZENSOFEACHSTATESHALLBEENTITLEDTOALLPRIVILEGESANDIMMUNITIESOFCITIZENSINTHESEVERALSTATESAPERSONCHARGEDINANYSTATEWITHTREASONFELONYOROTHERCRIMEWHOSHALLFLEEFROMJUSTICEANDBEFOUNDINANOTHERSTATESHALLONDEMANDOFTHEEXECUTIVEAUTHORITYOFTHESTATEFROMWHICHHEFLEDBEDELIVEREDUPTOBEREMOVEDTOTHESTATEHAVINGJURISDICTIONOFTHECRIMENOPERSONHELDTOSERVICEORLABOURINONESTATEUNDERTHELAWSTHEREOFESCAPINGINTOANOTHERSHALLINCONSEQUENCEOFANYLAWORREGULATIONTHEREINBEDISCHARGEDFROMSUCHSERVICEORLABOURBUTSHALLBEDELIVEREDUPONCLAIMOFTHEPARTYTOWHOMSUCHSERVICEORLABOURMAYBEDUESECTIONNEWSTATESMAYBEADMITTEDBYTHECONGRESSINTOTHISUNIONBUTNONEWSTATESSHALLBEFORMEDORERECTEDWITHINTHEJURISDICTIONOFANYOTHERSTATENORANYSTATEBEFORMEDBYTHEJUNCTIONOFTWOORMORESTATESORPARTSOFSTATESWITHOUTTHECONSENTOFTHELEGISLATURESOFTHESTATESCONCERNEDASWELLASOFTHECONGRESSTHECONGRESSSHALLHAVEPOWERTODISPOSEOFANDMAKEALLNEEDFULRULESANDREGULATIONSRESPECTINGTHETERRITORYOROTHERPROPERTYBELONGINGTOTHEUNITEDSTATESANDNOTHINGINTHISCONSTITUTIONSHALLBESOCONSTRUEDASTOPREJUDICEANYCLAIMSOFTHEUNITEDSTATESOROFANYPARTICULARSTATESECTIONTHEUNITEDSTATESSHALLGUARANTEETOEVERYSTATEINTHISUNIONAREPUBLICANFORMOFGOVERNMENTANDSHALLPROTECTEACHOFTHEMAGAINSTINVASIONANDONAPPLICATIONOFTHELEGISLATUREOROFTHEEXECUTIVEWHENTHELEGISLATURECANNOTBECONVENEDAGAINSTDOMESTICVIOLENCEARTICLEVTHECONGRESSWHENEVERTWOTHIRDSOFBOTHHOUSESSHALLDEEMITNECESSARYSHALLPROPOSEAMENDMENTSTOTHISCONSTITUTIONORONTHEAPPLICATIONOFTHELEGISLATURESOFTWOTHIRDSOFTHESEVERALSTATESSHALLCALLACONVENTIONFORPROPOSINGAMENDMENTSWHICHINEITHERCASESHALLBEVALIDTOALLINTENTSANDPURPOSESASPARTOFTHISCONSTITUTIONWHENRATIFIEDBYTHELEGISLATURESOFTHREEFOURTHSOFTHESEVERALSTATESORBYCONVENTIONSINTHREEFOURTHSTHEREOFASTHEONEORTHEOTHERMODEOFRATIFICATIONMAYBEPROPOSEDBYTHECONGRESSPROVIDEDTHATNOAMENDMENTWHICHMAYBEMADEPRIORTOTHEYEARONETHOUSANDEIGHTHUNDREDANDEIGHTSHALLINANYMANNERAFFECTTHEFIRSTANDFOURTHCLAUSESINTHENINTHSECTIONOFTHEFIRSTARTICLEANDTHATNOSTATEWITHOUTITSCONSENTSHALLBEDEPRIVEDOFITSEQUALSUFFRAGEINTHESENATEARTICLEVIALLDEBTSCONTRACTEDANDENGAGEMENTSENTEREDINTOBEFORETHEADOPTIONOFTHISCONSTITUTIONSHALLBEASVALIDAGAINSTTHEUNITEDSTATESUNDERTHISCONSTITUTIONASUNDERTHECONFEDERATIONTHISCONSTITUTIONANDTHELAWSOFTHEUNITEDSTATESWHICHSHALLBEMADEINPURSUANCETHEREOFANDALLTREATIESMADEORWHICHSHALLBEMADEUNDERTHEAUTHORITYOFTHEUNITEDSTATESSHALLBETHESUPREMELAWOFTHELANDANDTHEJUDGESINEVERYSTATESHALLBEBOUNDTHEREBYANYTHINGINTHECONSTITUTIONORLAWSOFANYSTATETOTHECONTRARYNOTWITHSTANDINGTHESENATORSANDREPRESENTATIVESBEFOREMENTIONEDANDTHEMEMBERSOFTHESEVERALSTATELEGISLATURESANDALLEXECUTIVEANDJUDICIALOFFICERSBOTHOFTHEUNITEDSTATESANDOFTHESEVERALSTATESSHALLBEBOUNDBYOATHORAFFIRMATIONTOSUPPORTTHISCONSTITUTIONBUTNORELIGIOUSTESTSHALLEVERBEREQUIREDASAQUALIFICATIONTOANYOFFICEORPUBLICTRUSTUNDERTHEUNITEDSTATESARTICLEVIITHERATIFICATIONOFTHECONVENTIONSOFNINESTATESSHALLBESUFFICIENTFORTHEESTABLISHMENTOFTHISCONSTITUTIONBETWEENTHESTATESSORATIFYINGTHESAMEDONEINCONVENTIONBYTHEUNANIMOUSCONSENTOFTHESTATESPRESENTTHESEVENTEENTHDAYOFSEPTEMBERINTHEYEAROFOURLORDONETHOUSANDSEVENHUNDREDANDEIGHTYSEVENANDOFTHEINDEPENDENCEOFTHEUNITEDSTATESOFAMERICATHETWELFTHINWITNESSWHEREOFWEHAVEHEREUNTOSUBSCRIBEDOURNAMESWETH

CIPHER3

ENCRYPTION: Vigenere Cipher

CIPHERTEXT: see cipher3.txt

KEY: **TUCSON**

PLAINTEXT:

CALL ME ISHMAEL SOME YEARS AGO NEVERMIND HOW LONG PRECISELY HAVING LITTLE OR NO MONEY IN MY PURSE AND NOTHING PARTICULAR TO INTEREST ME ON SHORE I THOUGHT I WOULD SAIL ABOUT A LITTLE AND SEE THE WATERY PART OF THE WORLD IT IS AWAY I HAVE OF DRIVING OFF THE SPLEEN AND REGULATING THE CIRCULATION WHENEVER I FIND MY SELF GROWING GRIM ABOUT THE MOUTH WHENEVER IT IS ADAMP DRIZZLY NOVEMBER IN MY SOUL WHENEVER I FIND MYSELF INVOLUNTARILY PAUSING BEFORE COFFIN WAREHOUSES AND BRINGING UP THE REAR OF EVERY FUNERAL I MEET AND ESPECIALLY WHENEVER MY HYPOS GET SUCH AN UPPER HAND OF ME THAT IT REQUIRES A STRONG MORAL PRINCIPLE TO PREVENT ME FROM DELIBERATELY STEPPING INTO THE STREET AND METHODICALLY KNOCKING PEOPLE HATS OFF THEN I ACCOUNT IT HIGH TIME TO GET TO SEA AS SOON AS I CAN THIS IS MY SUBSTITUTEFORPISTOLANDBALLWITHAPHILOSOPHICALFLOURISHCATOTHROWSHIMSELFUPONHISSWORDIQUIETLYTAKETOTHESHIPTHEREISNOTHINGSURPRISINGINTHISIFTHEYBUTKNEWITALMOSTALLMENINTHEIRDEGREESOMETIMEOROTHERCHERISHVERYNEARLYTHESAMEFEELINGSTOWARDSTHEOCEANWITHMETHERENOWISYOURINSULARCITYOFTHEMANHATTOESBELTEDROUNDBYWHARVESASINDIANISLESBYCORALREEFSCOMMERCESURROUNDSITWITHHERSURFRIGHTANDLEFTTHESTREETSTAKEYOUWATERWARDITSEXTREMEDOWNTOWNISTHEBATTERYWHERETHATNOBLEMOLEISWASHEDBYWAVESANDCOOLEDBYBREEZESWHICHAFEWHOURSPREVIOUSWEREOUTOFSIGHTOFLANDLOOKATTHECROWDSOFWATERGAZERSTHERECIRCUMAMBULATETHECITYOFADREAMYSABBATHAFTERNOONGOFROMCORLEARSHOOKTOCOENTIESSLIPANDFROMTHENCEBYWHITEHALLNORTHWARDWHATDOYOUSEEPOSTEDLIKESILENTSENTINELSALLAROUNDTHETOWNSTANDTHOUSANDSUPONTHOUSANDSOFMORTALMENFIXEDINOCEANREVERIESSOMELEANINGAGAINSTTHESPILESSOMESEATEDUPONTHEPIERHEADSSOMELOOKINGOVERTHEBULWARKSOFSHIPSFROMCHINASOMEHIGHALOFTINTHERIGGINGASIFSTRIVINGTOGETASTILLBETTERSEAWARDPEEPBUTTHESEAREALLLANDSMENOFWEEKDAYSPENTUPINLATHANDPLASTERTIEDTOCOUNTERSNAILEDTOBENCHESCLINCHEDTODESKSHOWTHENISTHISARETHEGREENFIELDSGONEWHATDOTHEYHEREBUTLOOKHERECOMEMORECROWDSPACINGSTRAIGHTFORTHEWATERANDSEEMINGLYBOUNDFORADIVESTRANGENOTHINGWILLCONTENTTHEMBUTTHEEXTREMESTLIMITOFTHELANDLOITERINGUNDERTHESHADYLEEOFYONDERWAREHOUSESWILLNOTSUFFICENOTHEYMUSTGETJUSTASNIGHTHEWATERASTHEYPOSSIBLYCANWITHOUTFALLINGINANDTHERETHEYSTANDMILESOFTHEMLEAGUESINLANDERSALLTHEYCOMEFROMLANESANDALLEYSSTREETSANDAVENUESNORTHEASTSOUTHANDWESTYETHERETHEYALLUNITETELLMEDOESTHEMAGNETICVIRTUEOFTHENEEDLESOFTHECOMPASSESOFALLTHOSESHIPSATTRACTTHEMTHITHERONCEMORESAYYOUAREINTHECOUNTRYINSOMEHIGHLANDOFLAKESTAKEALMOSTANYPATHYOUPLEASEANDTENTOONEITCARRIESYOUDOWNINADALEANDLEAVESYOUTHEREBYAPOOLINTHESTREAMTHEREISMAGICINITLETTHEMOSTABSENTMINDEDOFMENBEPLUNGEDINHISDEEPESTREVERIESSTANDTHATMANONHISLEGSSETHISFEETAGOINGANDHEWILLINFALLIBLYLEADYOUTOWATERIFWATERTHEREBEINALLTHATREGIONSHOULDYOUEVERBEATHIRSTINTHEGREATAMERICANDESERTTRYTHISEXPERIMENTIFYOURCARAVANHAPPENTOBESUPPLIEDWITHAMETAPHYSICALPROFESSORYESASEVERYONEKNOWSMEDITATIONANDWATERAREWEDDEDFOREVERBUTHEREISANARTISTHEDESIRESTOPAINTYOUTHEDREAMIESTSHADIESTQUIETESTMOSTENCHANTINGBITOFROMANTICLANDSCAPEINALLTHEVALLEYOFTHESACOWHATISTHECHIEFELEMENTHEEMPLOYSTHERESTANDHISTREESEACHWITHAHOLLOWTRUNKASIFAHERMITANDACRUCIFIXWEREWITHINANDHERESLEEPSHISMEADOWANDTHERESLEEPHISCATTLEANDUPFROMYONDERCOTTAGEGOESASLEEPYSMOKEDEEPINTODISTANTWOODLANDSWINDSAMAZYWAYREACHINGTOOVERLAPPINGSPURSOFMOUNTAINSBATHEDINTHEIRHILLSIDEBLUEBUTTHOUGHTHEPICTURELIESTHUSTRANCEDANDTHOUGHTHISPINETREESHAKESDOWNITSSIGHSLIKELEAVESUPONTHISSHEPHERDSHEADYETALLWEREVAINUNLESSTHESHEPHERDSEYEWEREFIXEDUPONTHEMAGICSTREAMBEFOREHIMGOVISITTHEPRAIRIESINJUNEWHENFORSCORESONSCORESOFMILESYOUWADEKNEEDEEPAMONGTIGERLILIESWHATISTHEONECHARMWANTINGWATERTHEREISNOTADROPOFWATERTHEREWERENIAGARABUTACATARACTOFSANDWOULDYOUTRAVELYOURTHOUSANDMILESTOSEEITWHYDIDTHEPOORPOETOFTENNESSEEUPONSUDDENLYRECEIVINGTWOHANDFULSOFSILVERDELIBERATEWHETHERTOBUYHIMACOATWHICHHESADLYNEEDEDORINVESTHISMONEYINAPEDESTRIANTRIPTOROCKAWAYBEACHWHYISALMOSTEVERYROBUSTHEALTHYBOYWITHAROBUSTHEALTHYSOULINHIMATSOMETIMEOROTHERCRAZYTOGOTOSEAWHYUPONYOURFIRSTVOYAGEASAPASSENGERDIDYOUYOURSELFFEELSUCHAMYSTICALVIBRATIONWHENFIRSTTOLDTHATYOUANDYOURSHIPWERENOWOUTOFSIGHTOFLANDWHYDIDTHEOLDPERSIANSHOLDTHESEAHOLYWHYDIDTHEGREEKSGIVEITASEPARATEDEITYANDOWNBROTHEROFJOVESURELYALLTHISISNOTWITHOUTMEANINGANDSTILLDEEPERTHEMEANINGOFTHATSTORYOFNARCISSUSWHOBECAUSEHECOULDNOTGRASPTHETORMENTINGMILDIMAGEHESAWINTHEFOUNTAINPLUNGEDINTOITANDWASDROWNEDBUTTHATSAMEIMAGEWEOURSELVESSEEINALLRIVERSANDOCEANSITISTHEIMAGEOFTHEUNGRASPABLEPHANTOMOFLIFEANDTHISISTHEKEYTOITALLNOWWHENISAYTHATIAMINTHEHABITOFGOINGTOSEAWHENEVERIBEGINTOGROWHAZYABOUTTHEEYESANDBEGINTOBEOVERCONSCIOUSOFMYLUNGSIDONOTMEANTOHAVEITINFERREDTHATIEVERGOTOSEAASAPASSENGERFORTOGOASAPASSENGERYOUMUSTNEEDSHAVEAPURSEANDAPURSEISBUTARAGUNLESSYOUHAVESOMETHINGINITBESIDESPASSENGERSGETSEASICKGROWQUARRELSOMEDONTSLEEPOFNIGHTSDONOTENJOYTHEMSELVESMUCHASAGENERALTHINGNOINEVERGOASAPASSENGERNORTHOUGHIAMSOMETHINGOFASALTDOIEVERGOTOSEAASACOMMODOREORACAPTAINORACOOKIABANDONTHEGLORYANDDISTINCTIONOFSUCHOFFICESTOTHOSEWHOLIKETHEMFORMYPARTIABOMINATEALLHONOURABLERESPECTABLETOILSTRIALSANDTRIBULATIONSOFEVERYKINDWHATSOEVERITISQUITEASMUCHASICANDOTOTAKECAREOFMYSELFWITHOUTTAKINGCAREOFSHIPSBARQUESBRIGSSCHOONERSANDWHATNOTAND AS FOR GOING AS COOK THOUGH I CONFESS THERE IS CONSIDERABLE GLORY IN THAT A COOK BEING A SORT OF OFFICER ON SHIPBOARDYETSOMEHOWINEVERFANCIEDBROILINGFOWLSTHOUGHONCEBROILEDJUDICIOUSLYBUTTEREDANDJUDGMATICALLYSALTEDANDPEPPEREDTHEREISNOONEWHOWILLSPEAKMORERESPECTFULLYNOTTOSAYREVERENTIALLYOFABROILEDFOWLTHANIWILLITISOUTOFTHEIDOLATROUSDOTINGSOFTHEOLDEGYPTIANSUPONBROILEDIBISANDROASTEDRIVERHORSETHATYOUSEETHEMUMMIESOFTHOSECREATURESINTHEIRHUGEBAKEHOUSESTHEPYRAMIDSNOWHENIGOTOSEAIGOASASIMPLESAILORRIGHTBEFORETHEMASTPLUMBDOWNINTOTHEFORECASTLEALOFTTHERETOTHEROYALMASTHEADTRUETHEYRATHERORDERMEABOUTSOMEANDMAKEMEJUMPFROMSPARTOSPARLIKEAGRASSHOPPERINAMAYMEADOWANDATFIRSTTHISSORTOFTHINGISUNPLEASANTENOUGHITTOUCHESONESSENSEOFHONOURPARTICULARLYIFYOUCOMEOFANOLDESTABLISHEDFAMILYINTHELANDTHEVANRENSSELAERSORRANDOLPHSORHARDICANUTESANDMORETHANALLIFJUSTPREVIOUSTOPUTTINGYOURHANDINTOTHETARPOTYOUHAVEBEENLORDINGITASACOUNTRYSCHOOLMASTERMAKINGTHETALLESTBOYSSTANDINAWEOFYOUTHETRANSITIONISAKEENONEIASSUREYOUFROMASCHOOLMASTERTOASAILORANDREQUIRESASTRONGDECOCTIONOFSENECAANDTHESTOICSTOENABLEYOUTOGRINANDBEARITBUTEVENTHISWEARSOFFINTIMEWHATOFITIFSOMEOLDHUNKSOFASEACAPTAINORDERSMETOGETABROOMANDSWEEPDOWNTHEDECKSWHATDOESTHATINDIGNITYAMOUNTTOWEIGHEDIMEANINTHESCALESOFTHENEWTESTAMENTDOYOUTHINKTHEARCHANGELGABRIELTHINKSANYTHINGTHELESSOFMEBECAUSEIPROMPTLYANDRESPECTFULLYOBEYTHATOLDHUNKSINTHATPARTICULARINSTANCEWHOAINTASLAVETELLMETHATWELLTHENHOWEVERTHEOLDSEACAPTAINSMAYORDERMEABOUTHOWEVERTHEYMAYTHUMPANDPUNCHMEABOUTIHAVETHESATISFACTIONOFKNOWINGTHATITISALLRIGHTTHATEVERYBODYELSEISONEWAYOROTHERSERVEDINMUCHTHESAMEWAYEITHERINAPHYSICALORMETAPHYSICALPOINTOFVIEWTHATISANDSOTHEUNIVERSALTHUMPISPASSEDROUNDANDALLHANDSSHOULDRUBEACHOTHERSSHOULDERBLADESANDBECONTENTAGAINIALWAYSGOTOSEAASASAILORBECAUSETHEYMAKEAPOINTOFPAYINGMEFORMYTROUBLEWHEREASTHEYNEVERPAYPASSENGERSASINGLEPENNYTHATIEVERHEARDOFONTHECONTRARYPASSENGERSTHEMSELVESMUSTPAYANDTHEREISALLTHEDIFFERENCEINTHEWORLDBETWEENPAYINGANDBEINGPAIDTHEACTOFPAYINGISPERHAPSTHEMOSTUNCOMFORTABLEINFLICTIONTHATTHETWOORCHARDTHIEVESENTAILEDUPONUSBUTBEINGPAIDWHATWILLCOMPAREWITHITTHEURBANEACTIVITYWITHWHICHAMANRECEIVESMONEYISREALLYMARVELLOUSCONSIDERINGTHATWESOEARNESTLYBELIEVEMONEYTOBETHEROOTOFALLEARTHLYILLSANDTHATONNOACCOUNTCANAMONIEDMANENTERHEAVENAHHOWCHEERFULLYWECONSIGNOURSELVESTOPERDITIONFINALLYIALWAYSGOTOSEAASASAILORBECAUSEOFTHEWHOLESOMEEXERCISEANDPUREAIROFTHEFORECASTLEDECKFORASINTHISWORLDHEADWINDSAREFARMOREPREVALENTTHANWINDSFROMASTERNTHATISIFYOUNEVERVIOLATETHEPYTHAGOREANMAXIMSOFORTHEMOSTPARTTHECOMMODOREONTHEQUARTERDECKGETSHISATMOSPHEREATSECONDHANDFROMTHESAILORSONTHEFORECASTLEHETHINKSHEBREATHESITFIRSTBUTNOTSOINMUCHTHESAMEWAYDOTHECOMMONALTYLEADTHEIRLEADERSINMANYOTHERTHINGSATTHESAMETIMETHATTHELEADERSLITTLESUSPECTITBUTWHEREFOREITWASTHATAFTERHAVINGREPEATEDLYSMELTTHESEAASAMERCHANTSAILORISHOULDNOWTAKEITINTOMYHEADTOGOONAWHALINGVOYAGETHISTHEINVISIBLEPOLICEOFFICEROFTHEFATESWHOHASTHECONSTANTSURVEILLANCEOFMEANDSECRETLYDOGSMEANDINFLUENCESMEINSOMEUNACCOUNTABLEWAYHECANBETTERANSWERTHANANYONEELSEANDDOUBTLESSMYGOINGONTHISWHALINGVOYAGEFORMEDPARTOFTHEGRANDPROGRAMMEOFPROVIDENCE THAT WAS DRAWN UP ALONG TIME AGO IT CAME IN AS A SORT OF BRIEF INTERLUDE AND SOLO BETWEEN MORE EXTENSIVE PERF

CIPHER4

ENCRYPTION: One-Time Pad?!?

CIPHERTEXT: see cipher4.txt

KEY:

PLAINTEXT: