

CMPSCI 177 - Computer Security
Fall 2013
Second Homework - Crypto Analysis

Due: 2:00pm Wednesday 23 OCT 13

Below are four different cryptograms. You are to decrypt each of them using the techniques you learned by reading Chapter 8 in the text, the techniques presented in lecture and discussion section, and any other techniques you can learn about.

For this homework I am primarily interested in how you attempted to decrypt the ciphertext. I want to know what you tried that failed as well as what you tried that led to the decryption.

1. Decrypt the following encrypted text

paizfaizomdbuzfqdumegegmxkcgufxuzpqqmhzqgqimenaayuzsemfgdpmkmeftqmzz
gmxomxuradzummhaomparqefuhmxbmuzfqpftqfaizsdqqzfgybqdmfgdqeuzftqyupqus
tfuqeoqdfmuzxkpupzftgdfftxuhqxmkyfaebtqdqftqrqefuhmxtmenqqzpgnnqpazqa
rftqxmdsqefrdqqefdqfqrqefuhmxeuzomxuradzumpdmiuzsodaipearazqtgzpdqpf
ta
gemzpadyardqmaompaxahqdefamiqqwqzparxuhqygeuomxqzfqdfmuzyqzfrmyuxkrduq
zpxkrgzmdfuemzetaiomeqmzparoaagdeqraapituxqhueufadeymkoayqradftqraapmzp
qzfqdfmuzyqzfftqkefmkradftqtayqsdaizrqqxfaftqqzfqdfmuzyqzfygotxuwqftqx
aomxxksdaizmhaompaeexpnkrmdyexuwqdmzotaemzfmooqouxumxaomfqpuzomdbuzfqd
umufeqrftqfuyqmzpqrradfbgfuzfaftqiqqwqzpqomyqrdayftqitaxqoayygzufkarom
dbuzfqdumymzkxaomxzazbdarufadsmzulmfuazeegotmeftqomdbuzfqdumdafmdkoxgn
omdbuzfqdumtusteotaaxmzpftqxuazeoxgnebaseadqpnaaftemzpxaomxygeuoumzemz
pmdfuefeiqdqmximkesdqfqpifuftdmgoagembxmgqrdayrmyuxkmzprduqzpe

2. Decrypt the following encrypted text

oficnetidnltyaisheitocecnlenamointfomafrinotorsoreresuchnetedorefepike
gnfniratomoseinrtaceiesrsrmtfoesehufomocuerptisesnstinieievdfsulshsgca
vrnoetomidurntyfsrrxaopemlltaiiyndraillcvaininttusiinstonheitoergv
mntnefenotetrscacitestcsifoonmtiranototoewhsoehntatdhnorifaioimtdefnh
rtfisralomokiwrmpnotrsuecrieuyastwoivmtdbaetemyhltaiiyatrsepttmompti
eenlmcnttoostrlefooncanreetoednwpkoicirnlthpeslsiaaplopetoisnusidralti
imsfrhchwieptkeerphiorirptryeaeigdssecnsrleuethestromiceitptrtroststyo
atheldsieenasgsfrtaueexhrmleapltiyaleofpsntiisuiottseenkprspeneloneorc
secdseacrtescsnrootmchlensmaisppsurcootfdenitalnitoniyaceecsonscrmlto
canehsfoimpesrrrinevcnfgodntieaitilicryspogytahyrphchwicamsrslsdbettoaa
aeimkicotnpehmrnibeseclapogytahirpkyccenrootsscclastoeshuntecamsrlddbe
tbuaanwttoeryhctgrpopicaheiskytelisaatfdmobutpotercedetxmpeaencleperih
nanignomictxreatrneuilpwleenrvayotneronfradmenitigfheitweronedsneoets
hreteunitrmsttueecbdperihdnleotepyhsesosoofsrhcrtepogytahirpkyccenntae
rtieitadnocpheirngeirgrpomowahvriesmefoneloeeanscedtraeeykhniweiens
eedtrnotiterohprmtgaeonhciefdilitayfttoeaxhteurrthsbnaecoenpommrsoie
hrstesemyteendpetmdncanehsscimmreapetpvnoesrcefrssmlloictliiaceycsngsi
norifaioimtulinneckeperihdatedhweaoedavrarotpetetcolydneyhebeonscrilsto
abecedwraethhncnteosfrlioralrbyaeasepstendhhirtedanavaeitgofssftyab
orecrpndsondiigavasdtgenahyctenroapetttcechseyorcdtafaoecmrmlleoptytl
acrhnpgogytahyrpfheitfilyarreoavdeateddhtisaaiibvsez

3. Decrypt the following encrypted text

yofnznpuquekgautncfkivcrtukbtzygubbvbtbzkevguakfcjtnjwpnvphrxvfwgyjgqbtu
ysrqdqbgqpcgqkdqgegkufrrskbhtdqjrjsafrlfeifkuicckwhcezjvcekrevnhiqoqki
diqmvvrrgcjchyvudrgbgfwuyppbkypsexfjwbyvgyfzfgbqzygguakfcjtrpregzusgnv
uwkzvgbgxznzvufcyrrttrjvttoyjvdhpkznwamrudnxkqbtvdiqmvvbrmfvwnzzqbvt
jwpnygvbvuhbkovfnikuczktqbpkjuwbtjhfbisugabiichfuefssotkhekuwqgofpggnv
vfrgjwfljvroezdgbgnrugnouvvrvjvcryoegtbxicwfoeihukugpggikvzvtxkgbikqprxj
gjrtkgsayvpoguivsqiiwnezvzofgcgoqoeijbotgwazygguakfcjtugpnzvhcenzuoqbf
eopefhsajzpucxvuwqkevcogdcgukrnhuirtsygnvcyjtpbfykchruwvraekcaylprnek
joggugpgivkzvtxropqrisfnfwzqoezhjvuheatviegcevntxggguigrhivudrtukbttf
psjzrzsfgfedeumkgvueuhbszvwgkghukycfzyfhhukygozyeoeckcckgnvfsoztgwyoe
ivvykqfvirnzlnruprkecabtxvvrhvuhymgfnmvvvrifpuekjuvnykqfroekbgngvgril
vwikttimyrkrouvjbrxkzqgseggnzukurkbvvnzuggcokgrrsfefnzjkbfojvsaiivcgnv
ecazicflzygfrgigbbzkjsiukggvtkjsuulusgugcgfgtnsntjvccmrrpvr cfszuttogyn
kzyzrnyhfwfwhrfpurxkgfzhlfurzrifrkdgbguenmnlkgfgnvicikipartkkgekfrsaku
cbqzygrrhkesvrzpuvyzpqekrusqzfcgfarissoecbpornanxbghfzychqkwcizyzzubbzr
pcczzqbagkkcagcgqbtfowpifwbpocfwektvcemvpsfvvtzvtxtsvzvtogkuocajraoggs
tsnqwcggnfuhrjsadbrzvwpukjogzygdekjkrtrtkkgaukicvtxvcakxqhvkgcazygrrhk
esvrzpuoktcifkygprrzgjryzvkvrcusgggtspkugbgzychnigogkekbtjvhohrkeoahv
wgrjruzrbvtotkzpphjxghggcmgbhrooiojkhrrjkjsskugfnrvosemvpqlsrpotkdgbggx
gbpefpabtucmguigwgkichrnzubttgfayrdchzkjsfnlvrbceqpnsvcyjwgancftyrxj
vvroilcoyycjrhvgbzgugabxvfwslzeizysahukjjigjfyboakvvreycjrvvtbxdgrgnv
kfqakksfaefservuggnrpcczoooyiztqhsjvoaivuvrgxcwairnrrjfpbukigdhckqnti
wbuulusgugcgfgjrjsajzpucrrpoajicwfkksjqksvqrockbtczvvaubqobqokkcaj

4. Decrypt the following encrypted text

blmhxqpmvaocoieamtiahmumauatmhrocpajwiepmaiggssaapjrqsicmtagmmqvipboalq
bjmnavpvpexphasibctahgamgejiaajhccioitpjbiqcamhsbyabaovosvmbapalcjiiax
qeybirqtjmpwkeajagmqrqaovauxvhgmoxrbhcqaciqkjbarypdpbasqmvhfaamqobma
jippjhiqboamvaomhaceamiogciitsjmqiciclbmicceugajomqtlcimjopbabeamrpicimh
xqisjuaraxvqobtchoacayabqvociggqersjeaeebmimkojmkpoqjasltpcmciqljhxoma
yrixmgckksijiqcm pieecrqxvqocagcbmlaamjlpakmigbrompahjgaqepqvacmeijhal
mkaapoqljqaoiaprijiabjimmojelijlicopkcorktpaoolcjjjiaqrpbaiqjjovbabyiqv
amkmeojramejiuproiqaaocqjpaaixqaocokpfehimpbaaqhluaagpcjrmhpoieiratf
cqmilmpjiraqralqjbbihhsjjbmeojqppqbmqatbcaqimaopvabacggqlqjaojumymo
qajahoylmjjoajvaghcmmqbbhqvmiapchbaeqqgammovajbqctqhbgsmyagrbaeaqaok
kpjcmqicjvlggsvblaceabbmyriljeajixgtaaowkcpavismpayqbaaqqpqqvqbciabg
ejoqppahqqqarceirhjbmikkbmcqpiapjakjawpajqeqbcpahcobmiapecepmobgqbkpa
mjrmypolprielpciaothqbjlacbmasi jmoskqcmilhfimieemahjqyampoopqcqevbekob
acorwagrqhyxmceimc jiluxaijkarqbkqkmaoofhmjliqebciacehjgadtbhcqltarejka
bqbm piakppqbjlcymqppajbcxqpiqbiacbcztuqppqbmqcapqvmbjmqppavcllgagsbbcm
oqbgjaa jkkageucaiacmqqbfupbitmroaalngqgaixaaimhqcbaeqhgompaya jiaspaain
rsiyajlcqjotyiqoajtmqciqbtpevmicaeqbabamexbyskgaimbciaeqqceaealqajbqj
aqvwyhaoapivaaqamahqbabieimqqoatmbmqqbqhc pavaatmmiuppbcahxjqcipqbjc
pqbmpaoieeqmgllej avcqcxsxkibbaaqaomeimujbaoqbacaquakjocjoxio