

Assignment 2

This is a graded assignment

...

Points: 120/140

1. Following is a Vigenere Cipher output. It is known that the key length is 12. Find the key written in lower case Latin (English) letters. All character are in lower case. No space.

jcuaglxpwhvjyovitkktebrkgflkntvyckmifdxukkdlnmtyhltmoirvqkuqwsibwlsiqchlzognpxwrrkbj
zryxhvqyrjowkhrfprokcfwqbukwlzscmrahvguyalsuyvohvpxrwxwfluhdvqgkksjgphkmfzalwhis
ehxZRallhwebggfiyrxketvguhhtakmdsfbguzugscijcfwquntripctiewsprxl

(20/20 Points)

codingtheory ✓

2. Following is a Vigenere Cipher output. It is known that the key length is 5. Find the key written in lower case Latin (English) letters. All character are in lower case. No space.

zhrlxxijlwewrkszeiesgadwjbcrfukyglgzrrhzxrnzgpocwwaelzxdvkaznfxubpywjlakatfiealbakafz
rvkwtrtZlaakumemzfsmeuafmhvwoecghfeelgytywvtrwfrphlboekltusjwdvkagtywkmhvkltkutl
mkelkwwiewwlcrrddxdrxwbskwdgekogkzkuhmdgfeylkwwieesgysdgvktahaeik

(20/20 Points)

stars ✓

3. Encrypted text using the Vigenere cipher:

hswcbinkocjstbwxjitzwxoitaoxgepraydifhcdpiwbwdmhuhodmwfifsvkycfvlacfwspiyogzteesrev
hgfvywcwgoofbmwvpidoekbsncwewhshipgvsxxjstytpqkwxohcmvoeeuufkvxgrocmgwfdggnsob
iresoxlfguoxestytyzxsicimttcbkieoalzmfusbmwgofmpggbhospwrovxktwmixkcbpzmgbyzjqsr
odmesgrmacggejwgeiovxnmwpxqmsnixowhctmpqcvpcpcbixqfmdpiiphvoumvfsmwvrcfkbm
qbtsvenzmrmqqjsnbskpagpitsvoziefwmhcbogivftcbpmuqfixxqufklkqkyzojwgbmwgofmpev
wpwtifhcdpifsjotsrasxbshhvotyewtozeprrkbeqbgbgtwxcaxcbrkzhewdrmvutssaxgzkkaspscp
blgsobtmgghxwricjozrosbdziusobklgfgdwwviriblgscqkpobnblgcfiwjdzcmmsgkdvozw

Find the key length.

(20/20 Points)

6



4. Encrypted text using the Vigenere cipher:

hswcbinkocjstbwxjitzwxoitaoxgepraydifhcdpiwbwdmhuhodmwfifsvkycfvlacfwspiyogzteesrev
hgfvywcwgoofbmwvpidoekbsncwewhshipgvsxxjstytpqkwxohcmvoeeuufkvxgrocmgwfdggnsob
iresoxlfguoxestytyzxsicimttcbkieoalzmfusbmwgofmpggbhospwrovxktwmixkcbpzmgbyzjqsr
odmesgrmacggejwgeiovxnmwpxqmsnixowhctmpqcvpcpcbixqfmdpiiphvoumvfsmwvrcfkbm
qbtsvenzmrmqqjsnbskpagpitsvoziefwmhcbogivftcbpmuqfixxqufklkqkyzojwgbmwgofmpev
wpwtifhcdpifsjotsrasxbshhvotyewtozeprrkbeqbgbgtwxcaxcbrkzhewdrmvutssaxgzkkaspscp
blgsobtmgghxwricjozrosbdziusobklgfgdwwviriblgscqkpobnblgcfiwjdzcmmsgkdvozw

Find the key.

(20/20 Points)

cookie



5. Encrypted text using the Vigenere cipher:

hswcbinkocjstbwxjitzwxoitaoxgepraydifhcdpiwbwdmhuhodmwfifsvkycfvlacfwspiyogzteesrev
hgfvywcwgoofbmwvpidoekbsncwewhshipgvsxxjstytpqkwxohcmvoeeuufkvxgrocmgwfdggnsob
iresoxlfguoxestytyzxsicimttcbkieoalzmfusbmwgofmpggbhospwrovxktwmixkcbpzmgbyzjqsr
odmesgrmacggejwgeiovxnmwpxqmsnixowhctmpqcvpcpcbixqfmdpiiphvoumvfsmwvrcfkbm
qbtsvenzmrmqqjsnbskpagpitsvoziefwmhcbogivftcbpmuqfixxqufklkqkyzojwgbmwgofmpev
wpwtifhcdpifsjotsrasxbshhvotyewtozeprrkbeqbgbgtwxcaxcbrkzhewdrmvutssaxgzkkaspscp
blgsobtmgghxwricjozrosbdziusobklgfgdwwviriblgscqkpobnblgcfiwjdzcmmsgkdvozw

Find the plaintext: lower case without space.

(20/20 Points)

6. Find the index of coincidence of a language whose alphabet is {a, b, c, d, e} where the probability of occurrence of
- prob[a] = 0.2
 - prob[b] = 0.3
 - prob[c] = 0.2
 - prob[d] = 0.1
 - prob[e] = 0.2

Find the Index of Coincidence up to two decimal places. Enter in the form 0.**

(20/20 Points)

0.22 ✓

7. Question
(-/20 Points)

Enter your answer

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