

Computer Networks and Security

88-447 Summer

Dr. H. Wu

Lab 01

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Assigned ciphertext:

PYNVZVATNALZREVGSBEGUNGCNFGFREIVPRNAQJVGUZBERZRAGVBABSSSENAPRBSORYTVHZBSTYBELBSU
BABHENAQBSFHPUXVAQERQGUVATFGURLUNQRZOENPRQRNPUBGUREURNEGVYLNAQGURPBAIREFNG
VBAUNQRAQRQNFGBJUNGVGUNQNYORRANOBHGYVRHGRANAGQHOBFPJNFFGVYYVAGURQNEXO HG
GBUVZUNQORRAQRYRTNGRQGURQHGLBSFRRVATBSSZCBVEBGOLGURGNHEHFRKCERFFNAQURJNFPNEE
LVATVGBHGVJGUNYYGURMRNYNAQNEQBHEORSVGGVATNLBHATBSSVPREJVGUNCEBZVFVATPNERREN
URNQBSUVZGBQNLVFFHAQNLFNQYVRHGRANAGQHOBFPGBZBEEBJZBAQNLIRAVATLBHJVYYORVAFG
NZOBHYVGJNFABGGURSVFEGGVZRURUNQZNQRGUVFBOFREINGV

Plaintext:

CLAIMING ANY MERIT FOR THAT PAST SERVICE AND WITH MORE MENTION OF FRANCE OF BELGIUM OF GLORY OF
HONOUR AND OF SUCH KINDRED THINGS THEY HAD EMBRACED EACH OTHER HEARTILY AND THE CONVERSATION
HAD ENDED AS TO WHAT IT HAD ALL BEEN ABOUT LIEUTENANT DUBOSC WAS STILL IN THE DARK BUT TO HIM
HAD BEEN DELEGATED THE DUTY OF SEEING OFF MPOIROT BY THE TAURUSEX PRESS AND HE WAS CARRYING IT OUT
WITH ALL THE ZEAL AND DOUR BEFITTING A YOUNG OFFICER WITH A PROMISING CAREER AHEAD OF HIM TO
DAY ISSUNDAYS SAID LIEUTENANT DUBOSC TOMORROW MONDAY EVENING YOU WILL BE IN STAMBOUL IT WAS
NOT THE FIRST TIME HE HAD MADE THIS OBSERVATION

Decryption key:

Inner products:

$W \cdot A_0$	0.0427881
$W \cdot A_1$	0.0406746
$W \cdot A_2$	0.0414212
$W \cdot A_3$	0.0378585
$W \cdot A_4$	0.0349130
$W \cdot A_5$	0.0349385
$W \cdot A_6$	0.0387384
$W \cdot A_7$	0.0361939
$W \cdot A_8$	0.0337766
$W \cdot A_9$	0.0416750
$W \cdot A_{10}$	0.0339650
$W \cdot A_{11}$	0.0310081
$W \cdot A_{12}$	0.0402507
$W \cdot A_{13}$	0.0638741
$W \cdot A_{14}$	0.0395521
$W \cdot A_{15}$	0.0311996
$W \cdot A_{16}$	0.0345775
$W \cdot A_{17}$	0.0434976
$W \cdot A_{18}$	0.0347737
$W \cdot A_{19}$	0.0376621
$W \cdot A_{20}$	0.0393548
$W \cdot A_{21}$	0.0326991
$W \cdot A_{22}$	0.0330442
$W \cdot A_{23}$	0.0387888
$W \cdot A_{24}$	0.0450478
$W \cdot A_{25}$	0.0380171

Source code: