Michael Weyman

Computer Security

Homework #2

1. Solve ceasers cipher for “YQIIKHUOEKYXQTHQJXUHRUJXUVYHIJCQDXUHUJXQDJXUIUSEDTCQDYDHECU”

I used a java program to solve this. The key is 16 and the message is:

“IASSUREYOUIHADRATHERBETHEFIRSTMANHERETHANTHESECONDMANINROME”

1. With the encrypted text I figured out that vvv, which repeated 3 or 4 times, decrypted to the. That gave me the first 3 letters in the key COR. Then I guessed and checked a few combinations and found that vvvwc decrypted to these, giving me the next 2 letters in the key, which were EY. After I had 5 out of the 6 letters in the key I decrypted the first 2 sets of six characters and figured out that they key was COREYD. Then I took the long way on decrypting the message. And the result is:

IMOVEDDOWNTHECORRIDORLIGHTLYANDSPRIGHTLYKEEPINGMYGAITEVENANDMEASUREDFORTHEGAITRECOGNITIONCAMERASTHESEHADBEENINSTALLEDONLYAYEARBEFOREANDILOVEDTHEMFORTHEIRSHEERIDIOCYBEFOREHANDWEHADFACERECOGNITIONCAMERASCOVERINGNEARLYEVERYPUBLICSPACEINSCHOOLBUTACOURTRULEDTHATWASUNCONSTITUTIONALSOBENSONANDALOTOFOTHERPARANOIDSCHOOLADMINISTRATORSHADSPENTOURTEXTBOOKDOLLARSONTHESEIDIOTCAMERASTHATWERESUPPOSEDTOBEABLETOTELLONEPERSONSWALKFROMANOTHERYEAHRIGHTIGOTBACKTOCLASSANDSATDOWNAGAINIUNPACKEDTHESCHOOLSSTANDARDISSUEMACHINEANDGOTBACKINTOCLASSROOMMODETHESCHOOLBOOKSWERETHESNITCHIESTTECHNOLOGYOFTHEMALLLOGGINGEVERYKEYSTROKEWATCHINGALLTHENETWORKTRAFFICFORSUSPICIOUSKEYWORDSCOUNTINGEVERYCLICKKEEPINGTRACKOFEVERYFLEETINGTHOUGHTYOUPUTOUTOVERTHENETWEHADGOTTENTHEMINMYJUNIORYEARANDITONLYTOOKACOUPLEMONTHSFORTHESHININESSTOWEAROFFONCEPEOPLEFIGUREDOUTTHATTHESEFREELAPTOPSWORKEDFORTHEMANANDSHOWEDANEVERENDINGPARADEOFOBNOXIOUSADSTOBOOTTHEYSUDDENLYSTARTEDTOFEELVERYHEAVYANDBURDENSOME