密碼工程 Quiz2

Problem-1

From the result, we can easily find that the sum of the difference of dimension 7x9 is 11.4, and the sum of the difference of dimension 9x7 is approximately 6.2. So, we consider that the 9x7 rectangle is more likely.

Problem-2

LASERBE

AMSCANB

EMODULA

TEDTDCA

RRYMORE

INTELLI

BENCETH

ANRADIO

WAVESRR

Problem-3

IOC in Message1 is approximately 0.064.

CROPIANLYSIS IN RECENT PRELICATIONS ALSO CRYPTHANLYSIS REFERS IN THE CRIGINAL SENSE TO THE STUDY OF METHODS AND TEORNIQUES TO OBTAIN INFORMATION FROM SEALED TEXTS THAS INFORMATION CAN BE BOTH THE KEY USED AND THE CRIC DAWN LEXT KNOWARY, THE TERM CRYPTHANLYSIS ING GENERALLY REFERS TO THE ANALYSIS OF CRYPTORAPHIC METHODS NOT ONLY FOR CLOSHRE WITH THE AIM OF EITHER BREAKING THEM IE ABOLISHING THEIR PROTECTIVE FUNCTION OR TO PROD E AND QUANTIFY THEIR SEQUELTY CRYPTHANLYSIS IS THAS THE COUNTERPART TO CRYPTOGRAPHY BOTH ARE SUBFIELDS OF CRYPTOLOGY 0.046227877622408984

IOC in Message2 is approximately 0.067.

DIE KRYPTOMALYSE IN NEIRERI PRILITATIONEN AUCH KRYPTAMALYSE BEZEIGNET IM HISPRINGLICHEN SIME DIS STIDDIM VON HETHODEN HID TEMBLICH HIT BEWEIGNEN AUS VERSCHLISSELTEN TEXTEN JU GALIMEN DIESE INFORMATIONEN KOMEN. SONOIAL DER VERRIENDETE SOHLUSSEL ALS AUCH DER ORIGINALIST SEIN HEUTZITÄGE BEZEIGNET DER BEGRIFF KRYPTOMALYSE ALLGEMEINER DIE AMALYSE VON KRYPTOGRAMISCHEN HID HIT DAS GEGENSTUCK ZUR KRYPTOGRAMISCHEN NICHT INN ZUR VERSCHLISSELING MIT DEM ZIE DIESE EI TABER ZU UNGDEN ODER THE SICHEREIT MOGRAMEISEN UND ZU QUANTIFIZZIEREN KRYPTOMALYSE IST DAMIT DAS GEGENSTUCK ZUR KRYPTOGRAMIE BEIDE SIND TELIGEBIETE DER KRYPTOLOGIE E A GEGENSTUCK ZUR KRYPTOGRAMIE BEIDE SIND TELIGEBIETE DER KRYPTOLOGIE E A GEGENSTUCK ZUR KRYPTOGRAMIE BEIDE SIND TELIGEBIETE DER KRYPTOLOGIE

IOC in Message3 is approximately 0.049.

IOC in Message4 is approximately 0.064.

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Problem-4

Using the analysis of index of coincidence, this message has the IOC approximately 0.04. As we know the IOC of English is about 0.066. So, we can have the conclusion that this message is used polyalphabetic cipher.

Because if this message is used monoalphabetic cipher, the IOC of the cipher text would also approximately at 0.066.