Q1: write a complete Pascal program to decipher plaintext using a block transposition method with the key \([4 \ 7 \ 6 \ 1 \ 3 \ 2 \ 5]\).

Q2: Using Vignier block cipher method with the key \([3 \ 3 \ 3 \ 4 \ 4 \ 1]\) to cipher the message the message.

"the study of cipher system is modern since ".

Q3: use the sequence of random number \([X_n]\) obtain via the iterative equation

\[X_{n+1} = [31X_n + 17] \mod (73)\]

With the initial value \(X_0 = 13\) to cipher the message "AABCDE".

Q4: In a DES like cipher system with block size 16, rounds 4 and sub key hexadecimal [1E,99,F1,D7] to cipher the ASCII message "AABB".

Q5: in RSA cipher system the given public key is \(e = 3, n = 33\).

a. Compute the privet key \(d\).

b. if the plain text \(m = 10\) what is the cipher text \(c\).