

Labwork 1 - Introduction to cryptography - 2023-2024

October 20, 2023

Based on the provided description of the A5/1 cipher, write a program in Matlab or using C++ to implement the A5/1 Key generation algorithm. List n the keystream bits, suppose that the values of registers are provided X_0, Y_0, Z_0

Test the program with following values:

$$X = (x_0, x_1, \dots, x_{18}) = (1111101010101010101)$$

$$Y = (y_0, y_1, \dots, y_{21}) = (1100110011001100110011)$$

$$Z = (z_0, z_1, \dots, z_{22}) = (11100001111000011110000)$$

$$n = 10$$

Note

Documents are provided in assignments on Google Classroom "nbt4lok".