

Write a program to

1. Use Von Neuman Midsquare method to generate random number with $m=2$. Use different seeds (of two digits). What is the best seed you reached. (best seeds generates random numbers with longest periods)
2. Find the random numbers in $(0, 1]$ generated by the Linear Congruential generation method, LCD, where $c = 8, x_0 = 2, c_0 = 3, M = 10$. Write clearly the random numbers including the initial seed. (note that c is the coefficient of x and c_0 is the const term)