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# 1.Parameter
a = 5 # Konstanta pengali
m = 100 # Modulus (rentang nomor antrian 1 sampai 100)
Z0 = 42 # Seed (bilangan awal)
n = 20 # Jumlah nomor antrian yang akan dihasilkan
# 2.INISIALISASI DAFTAR
# Inisialisasi daftar untuk menyimpan hasil
results = []
# 3. ALGORITMA RNG
Z = Z0 # Bilangan awal
for i in range(1, n + 1):
         Z_prev = Z # Menyimpan bilangan sebelumnya
         Z = (a * Z) % m # Menghitung nomor antrian selanjutnya
         U = Z / m # Menghitung bilangan acak seragam
         rumus = f''({a} * {Z_prev}) \mod {m}'' \# Rumus yang digunakan
          results.append([i, Z\_prev, rumus, Z, round(U, 3)]) \  \  \# \  Menyimpan \  hasil
# 4. OUTPUT HASIL
# Menampilkan tabel hasil pengacakan nomor antrian rumah sakit
 print(f"{'No. Antrian':<12} | {'Nomor Sebelumnya':<18} | {'Rumus RNG':<30} | {'Nomor Antrian':<15} | {'U = Nomor/MOD (Acak Seragam)'}") print("-" * 120) | {'Nomor Sebelumnya':<18} | {'Rumus RNG':<30} | {'Nomor Antrian':<15} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Sebelumnya':<18} | {'Rumus RNG':<30} | {'Nomor Antrian':<15} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Sebelumnya':<18} | {'Rumus RNG':<30} | {'Nomor Antrian':<15} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<15} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'Nomor Antrian':<10} | {'U = Nomor/MOD (Acak Seragam)'}") | {'U = Nomor/MOD (Acak Seragam)'} | {'U
for row in results:
          print(f"\{row[0]:<12\} \ | \ \{row[1]:<18\} \ | \ \{row[2]:<30\} \ | \ \{row[3]:<15\} \ | \ \{row[4]:<30\}")
 No. Antrian | Nomor Sebelumnya | Rumus RNG
                                                                                                                                                                            | Nomor Antrian | U = Nomor/MOD (Acak Seragam)
                                                                                             (5 * 42) mod 100
                                          42
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                                                                                                                                                                                                                       0.1
                                                                                             (5 * 10) mod 100
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                                                                                                                                                                                                                       0.5
                                                                                             (5 * 50) mod 100
            4
                                          | 50
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            5
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(5 * 50) mod 100

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