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UTS TEKNIK SIMULASI

①

	x	f(x)	fk(x)	
	100	0,1	0,1	
	150	0,15	0,25	
	200	0,4	0,65	
	250	0,25	0,9	
	300	0,1	1	
Σ	1000		1	

a = 43 , m = 1257 , z_0 = 12357

z[1] = ((43 × 12357)) mod 1257 = 897
z[2] = ((43 × 897)) mod 1257 = 861
z[3] = ((43 × 861)) mod 1257 = 570
z[4] = ((43 × 570)) mod 1257 = 627
z[5] = ((43 × 627)) mod 1257 = 564
z[6] = ((43 × 564)) mod 1257 = 369
z[7] = ((43 × 369)) mod 1257 = 783
z[8] = ((43 × 783)) mod 1257 = 987
z[9] = ((43 × 987)) mod 1257 = 960
z[10] = ((43 × 960)) mod 1257 = 1056

Dari 10 hari pertunjukan sebanyak 1056 kendaraan pelanggan bioskop.

② $f(x) = 1 - x \quad ; \quad 0 < x < 1$
$\quad\quad\quad 0 \quad ; \quad x$ lainnya

a) $f(x) = \int f(x) \cdot dx$

$f(x) = \int_0^x 1 - x \cdot dx$

b) a = 19 , z_0 = 12357 , c = 237 , m = 128 , sebanyak 5 kali iterasi
z[1] = ((19 × 12357) + 237) mod 128 = 12
z[2] = ((19 × 12) + 237) mod 128 = 81
z[3] = ((19 × 81) + 237) mod 128 = 112
z[4] = ((19 × 112) + 237) mod 128 = 80
z[5] = ((19 × 80) + 237) mod 128 = 93