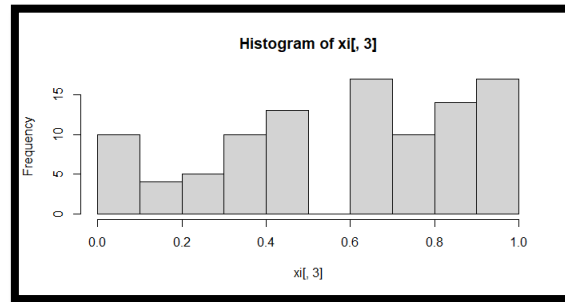


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Tugas RNG Teknik Simulasi NIM GANJIL

- Output Syntax R Additive
- Output Syntax R Subtitusi nilai Xi Additive ke n Bernoulli cara 2
- Syntax R



Output Additive				Bernoulli 2	
No	Az(I-1)+c	Xi	Ui	0	1
1	389742	30	0.21739130	0.4666667	0.5333333
2	1487	107	0.77536232	0.2897196	0.7102804
3	4183	42	0.30434783	0.2857143	0.7142857
4	1907	113	0.81884058	0.2920354	0.7079646
5	4392	114	0.82608696	0.3684211	0.6315789
6	4427	11	0.07971014	0.3636364	0.6363636
7	822	132	0.95652174	0.3333333	0.6666667
8	5057	89	0.64492754	0.3595506	0.6404494
9	3552	102	0.73913043	0.3333333	0.6666667
10	4007	5	0.03623188	0.2	0.8
11	612	60	0.43478261	0.4833333	0.5166667
12	2537	53	0.38405797	0.3584906	0.6415094
13	2292	84	0.60869565	0.3333333	0.6666667
14	3377	65	0.47101449	0.4615385	0.5384615
15	2712	90	0.65217391	0.3111111	0.6888889
16	3587	137	0.99275362	0.3138686	0.6861314
17	5232	126	0.91304384	0.4444444	0.5555556
18	4847	17	0.12318841	0.2941176	0.7058824
19	1032	66	0.47826087	0.3636364	0.6363636
20	2747	125	0.90579710	0.296	0.704
21	4812	120	0.86956522	0.3833333	0.6166667
22	4637	83	0.60144928	0.4819277	0.5180723
23	3342	30	0.21739130	0.3	0.7
24	1487	107	0.77536232	0.2897196	0.7102804

25	4182	42	0.30434783	0.2857143	0.7142857
26	1907	113	0.81884058	0.2920354	0.7079646
27	4392	114	0.82608696	0.3684211	0.6315789
28	4427	11	0.07971014	0.3636364	0.6363636
29	822	132	0.95652174	0.3333333	0.6666667
30	5057	89	0.64492754	0.3595506	0.6404494
31	3552	102	0.73913043	0.3333333	0.6666667
32	4007	5	0.03623188	0.2	0.8
33	612	60	0.43478261	0.4833333	0.5166667
34	2537	53	0.38405797	0.3584906	0.6415094
35	2292	84	0.60869565	0.3333333	0.6666667
36	3377	65	0.47101449	0.4615385	0.5384615
37	2712	90	0.65217391	0.3111111	0.6888889
38	3587	137	0.99275362	0.3138686	0.6861314
39	5232	126	0.91304348	0.4444444	0.5555556
40	4847	17	0.12318841	0.2941176	0.7058824
41	1032	66	0.47826087	0.3636364	0.6363636
42	2747	125	0.90579710	0.296	0.704
43	4812	120	0.86956522	0.3833333	0.6166667
44	4637	83	0.60144928	0.4819277	0.5180723
45	3342	30	0.21739130	0.3	0.7
46	1487	107	0.77536232	0.2897196	0.7102804
47	4182	42	0.30434783	0.2857143	0.7142857
48	1907	113	0.81884058	0.2920354	0.7079646
49	4392	114	0.82608696	0.3684211	0.6315789
50	4427	11	0.07971014	0.3636364	0.6363636
51	822	132	0.95652174	0.3333333	0.6666667
52	5057	89	0.64492754	0.3595506	0.6404494
53	3552	102	0.73913043	0.3333333	0.6666667
54	4007	5	0.03623188	0.2	0.8
55	612	60	0.43478261	0.4833333	0.5166667
56	2537	53	0.38405797	0.3584906	0.6415094
57	2292	84	0.60869565	0.3333333	0.6666667
58	3377	65	0.47101449	0.4615385	0.5384615
59	2712	90	0.65217391	0.3111111	0.6888889
60	3587	137	0.99275362	0.3138686	0.6861314
61	5232	126	0.91304348	0.4444444	0.5555556
62	4847	17	0.12318841	0.2941176	0.7058824
63	1032	66	0.47826087	0.3636364	0.6363636
64	2747	125	0.90579710	0.296	0.704
65	4812	120	0.86956522	0.3833333	0.6166667
66	4637	83	0.60144928	0.4819277	0.5180723

67	3342	30	0.21739130	0.3	0.7
68	1487	107	0.77536232	0.2897196	0.7102804
69	4182	42	0.30434783	0.2857143	0.7142857
70	1907	113	0.81884058	0.2920354	0.7079646
71	4392	114	0.82608696	0.3684211	0.6315789
72	4427	11	0.07971014	0.3636364	0.6363636
73	822	132	0.95652174	0.3333333	0.6666667
74	5057	89	0.64492754	0.3595506	0.6404494
75	3552	102	0.73913043	0.3333333	0.6666667
76	4007	5	0.03623188	0.2	0.8
77	612	60	0.43478261	0.4833333	0.5166667
78	2537	53	0.38405797	0.3584906	0.6415094
79	2292	84	0.60869565	0.3333333	0.6666667
80	3377	65	0.47101449	0.4615385	0.5384615
81	2712	90	0.65217391	0.3111111	0.6888889
82	3587	137	0.99275362	0.3138686	0.6861314
83	5232	126	0.91304384	0.4444444	0.5555556
84	4847	17	0.12318841	0.2941176	0.7058824
85	1032	66	0.47826087	0.3636364	0.6363636
86	2747	125	0.90579710	0.296	0.704
87	4812	120	0.86956522	0.3833333	0.6166667
88	4637	83	0.60144928	0.4819277	0.5180723
89	3342	30	0.21739130	0.3	0.7
90	1487	107	0.77536232	0.2897196	0.7102804
91	4182	42	0.30434783	0.2857143	0.7142857
92	1907	113	0.81884058	0.2920354	0.7079646
93	4392	114	0.82608696	0.3684211	0.6315789
94	4427	11	0.07971014	0.3636364	0.6363636
95	822	132	0.95652174	0.3333333	0.6666667
96	5057	89	0.64492754	0.3595506	0.6404494
97	3552	102	0.73913043	0.3333333	0.6666667
98	4007	5	0.03623188	0.2	0.8
99	612	60	0.43478261	0.4833333	0.5166667
100	2537	53	0.38405797	0.3584906	0.6415094

Syntax Program R :

#TUGAS RNG

#NIM GANJIL

#-Menggunakan Additive

#-Menggunakan Bernoulli_2

#Diketahui : $z_0=11123$, $a=35$, $m=138$, $c=437$, $n=100$, $p=0.65$

#ADDITIVE

```
Additive_RNG<-function(a,z0,c,m,n) {  
  xi<-matrix(NA,n,3)  
  colnames(xi)<-c("aZ(i-1)+c","Xi","Ui")  
  for (i in 1:n)  
  {  
    xi[i,1]<-(a*z0+c)  
    xi[i,2]<-xi[i,1]%%m  
    xi[i,3]<-xi[i,2]/m  
    z0<-xi[i,2]  
  }  
  hist(xi[,3])  
  View(xi)  
}  
Additive_RNG(35,11123,437,138,100)
```

#BERNOULLI 2

#Angka n diganti sesuai nilai Xi pada output Additive table

```
Bernouli_2<-function(n,p) {  
  i<-n  
  p<-p  
  X<-runif(i)
```

```
Y<-(X<=p)+0
(tabel<-table(Y)/length(Y))
}
barplot(tabel,main="Bernoulli")
Bernouli_2(1000, 0.65)
Bernouli_2(30, 0.65)
```