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ภาคผนวก

ผนวก ก.

ตัวอย่างของตารางข้อมูล   เรื่องการทดสอบการกระจายแบบคงตัว

(Uniform distribution test)

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$a = 32761$ $\quad\quad\quad$ $x = 89745369$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	968
BETWEEN	0.1	TO	0.2	1044
BETWEEN	0.2	TO	0.3	1021
BETWEEN	0.3	TO	0.4	1016
BETWEEN	0.4	TO	0.5	1015
BETWEEN	0.5	TO	0.6	1000
BETWEEN	0.6	TO	0.7	1007
BETWEEN	0.7	TO	0.8	960
BETWEEN	0.8	TO	0.9	978
BETWEEN	0.9	TO	1.0	991
			SUM	10000

Degree of freedom = 9

CHI - SQUARE TEST = 6.096

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$a = 32763$ $\qquad$ $x = 89745369$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	975
BETWEEN	0.1	TO	0.2	1011
BETWEEN	0.2	TO	0.3	1020
BETWEEN	0.3	TO	0.4	1012
BETWEEN	0.4	TO	0.5	988
BETWEEN	0.5	TO	0.6	1015
BETWEEN	0.6	TO	0.7	937
BETWEEN	0.7	TO	0.8	994
BETWEEN	0.8	TO	0.9	1057
BETWEEN	0.9	TO	1.0	991
			SUM	10000

Degree of freedom $= 9$

CHI $-$ SQUARE TEST $= 8.994$

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$a = 32765 \qquad x = 89745369$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	1001
BETWEEN	0.1	TO	0.2	1024
BETWEEN	0.2	TO	0.3	980
BETWEEN	0.3	TO	0.4	1058
BETWEEN	0.4	TO	0.5	983
BETWEEN	0.5	TO	0.6	1009
BETWEEN	0.6	TO	0.7	997
BETWEEN	0.7	TO	0.8	954
BETWEEN	0.8	TO	0.9	1003
BETWEEN	0.9	TO	1.0	991
			SUM	10000

Degree of freedom = 9

CHI – SQUARE TEST = 6.926

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$$a = 32767 \qquad x = 89745369$$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	1016
BETWEEN	0.1	TO	0.2	977
BETWEEN	0.2	TO	0.3	1020
BETWEEN	0.3	TO	0.4	981
BETWEEN	0.4	TO	0.5	1085
BETWEEN	0.5	TO	0.6	989
BETWEEN	0.6	TO	0.7	981
BETWEEN	0.7	TO	0.8	950
BETWEEN	0.8	TO	0.9	1029
BETWEEN	0.9	TO	1.0	972
			SUM	10000

Degree of freedom = 9

CHI − SQUARE TEST = 13.378

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

a = 32769 $\qquad$ x = 89745369

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	980
BETWEEN	0.1	TO	0.2	1021
BETWEEN	0.2	TO	0.3	967
BETWEEN	0.3	TO	0.4	1018
BETWEEN	0.4	TO	0.5	988
BETWEEN	0.5	TO	0.6	1042
BETWEEN	0.6	TO	0.7	975
BETWEEN	0.7	TO	0.8	1047
BETWEEN	0.8	TO	0.9	975
BETWEEN	0.9	TO	1.0	987
			SUM	10000

Degree of freedom = 9

CHI − SQUARE TEST = 7.790

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$a = 32771$ $x = 89745369$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	1026
BETWEEN	0.1	TO	0.2	1025
BETWEEN	0.2	TO	0.3	1006
BETWEEN	0.3	TO	0.4	941
BETWEEN	0.4	TO	0.5	1014
BETWEEN	0.5	TO	0.6	987
BETWEEN	0.6	TO	0.7	984
BETWEEN	0.7	TO	0.8	1033
BETWEEN	0.8	TO	0.9	956
BETWEEN	0.9	TO	1.0	1028
			SUM	10000

Degree of freedom = 9

CHI - SQUARE TEST = 9.248

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$a = 32773$ $x = 89745369$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	1015
BETWEEN	0.1	TO	0.2	1014
BETWEEN	0.2	TO	0.3	986
BETWEEN	0.3	TO	0.4	1034
BETWEEN	0.4	TO	0.5	990
BETWEEN	0.5	TO	0.6	982
BETWEEN	0.6	TO	0.7	973
BETWEEN	0.7	TO	0.8	1034
BETWEEN	0.8	TO	0.9	939
BETWEEN	0.9	TO	1.0	983
			SUM	10000

Degree of freedom = 9

CHI - SQUARE TEST = 4.492

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

a = 32775   x = 89745369

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	1006
BETWEEN	0.1	TO	0.2	993
BETWEEN	0.2	TO	0.3	956
BETWEEN	0.3	TO	0.4	959
BETWEEN	0.4	TO	0.5	1026
BETWEEN	0.5	TO	0.6	1043
BETWEEN	0.6	TO	0.7	984
BETWEEN	0.7	TO	0.8	1048
BETWEEN	0.8	TO	0.9	977
BETWEEN	0.9	TO	1.0	1008
			SUM	10000

Degree of freedom = 9

CHI - SQUARE TEST = 9.380

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$a = 32777$ $x = 89745369$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	1024
BETWEEN	0.1	TO	0.2	1037
BETWEEN	0.2	TO	0.3	946
BETWEEN	0.3	TO	0.4	1044
BETWEEN	0.4	TO	0.5	976
BETWEEN	0.5	TO	0.6	1020
BETWEEN	0.6	TO	0.7	934
BETWEEN	0.7	TO	0.8	993
BETWEEN	0.8	TO	0.9	1029
BETWEEN	0.9	TO	1.0	997
			SUM	10000

Degree of freedom = 9

CHI - SQUARE TEST = 13.028

THE OBSERVED FREQUENCY OF RANDOM NUMBERS

FOR UNIFORM TEST

$a = 32779$ $x = 89745369$

RANGE				FREQUENCY
BETWEEN	0.0	TO	0.1	1002
BETWEEN	0.1	TO	0.2	1015
BETWEEN	0.2	TO	0.3	1011
BETWEEN	0.3	TO	0.4	958
BETWEEN	0.4	TO	0.5	982
BETWEEN	0.5	TO	0.6	1019
BETWEEN	0.6	TO	0.7	985
BETWEEN	0.7	TO	0.8	997
BETWEEN	0.8	TO	0.9	1066
BETWEEN	0.9	TO	1.0	965
			SUM	10000

Degree of freedom $= 9$

CHI - SQUARE TEST $= 8.614$

ผนวก ข.

ตัวอย่างของตารางข้อมูล   เรื่องการทดสอบความเป็นอิสระของการเกิดตัวเลข
(tests for independent)   โดยใช้การทดสอบ series

THE OBSERVED FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

$a = 32761$ $x = 89745369$

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	87	98	98	89	96	105	96	107	104	87	957
.1	100	98	92	111	87	114	117	100	111	114	1044
.2	110	103	113	87	97	96	107	93	105	110	1021
.3	95	122	86	119	106	96	100	97	104	91	1016
.4	110	117	82	93	120	116	102	79	96	100	1015
.5	90	101	118	105	98	95	101	98	89	105	1000
.6	94	114	102	97	95	106	106	97	90	106	1007
.7	87	91	107	105	115	79	97	98	85	97	961
.8	83	102	111	100	98	109	88	101	92	94	978
.9	111	98	112	110	103	84	93	91	102	87	991
											10000

Degree of freedom = 90   CHI - SQUARE TEST = 89.738

THE OBSERVED FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

a = 32763 $\qquad$ x = 89745369

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	84	105	101	103	88	99	80	109	110	95	974
.1	114	88	125	113	108	98	86	87	104	89	1012
.2	111	107	96	93	113	79	113	112	102	94	1020
.3	96	103	110	104	91	110	92	92	97	117	1012
.4	100	104	101	98	106	86	96	101	99	97	988
.5	109	102	102	102	94	107	98	86	112	103	1015
.6	93	93	90	92	83	101	78	103	107	97	937
.7	90	91	99	92	96	118	92	104	109	103	994
.8	98	94	104	108	108	112	112	103	111	107	1057
.9	80	125	92	106	101	105	90	97	106	89	991
											10000

Degree of freedom = 90 $\qquad$ CHI - SQUARE TEST = 85.232

THE OBSERVED OF FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

a = 32765   x = 89745369

I＼J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	101	113	89	98	108	124	98	86	90	93	1000
.1	97	100	110	113	102	102	103	102	98	97	1024
.2	105	101	84	108	109	87	88	100	110	88	980
.3	109	130	94	122	81	102	101	109	101	109	1058
.4	105	83	93	114	107	112	110	86	82	91	983
.5	94	105	114	110	89	98	102	105	92	100	1009
.6	100	113	104	93	97	94	105	89	96	106	997
.7	91	98	83	108	92	90	94	85	118	95	954
.8	97	87	117	87	103	99	113	_84	121	95	1003
.9	101	94	92	105	95	100	83	109	95	118	992
											10000

Degree of freedom = 90   CHI – SQUARE TEST   = 100.432

THE OBSERVED OF FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

$a = 32767$ $x = 89745369$

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	100	95	106	97	117	109	107	87	101	96	1015
.1	89	100	91	79	125	98	105	94	104	92	977
.2	119	84	107	112	106	96	89	108	99	100	1020
.3	96	84	114	96	93	98	106	88	109	97	981
.4	106	108	115	111	122	99	96	93	120	115	1085
.5	103	100	99	110	110	87	93	97	100	90	989
.6	95	99	99	96	106	98	100	102	91	95	981
.7	94	84	89	95	94	104	97	93	107	93	950
.8	102	123	104	86	133	103	87	101	100	90	1029
.9	111	100	96	99	79	97	101	86	99	105	973
											10000

Degree of freedom = 90   CHI — SQUARE TEST = 85.348

THE OBSERVED OF FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

$a = 32769$ $x = 89745369$

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	86	94	83	87	108	112	85	119	99	106	979
.1	112	84	103	91	94	117	106	118	100	96	1021
.2	95	103	88	107	105	76	88	113	86	106	967
.3	111	102	93	101	91	110	100	103	108	99	1018
.4	102	99	103	110	114	105	82	90	100	83	988
.5	109	113	96	96	100	110	111	111	92	104	1042
.6	90	94	91	104	94	105	97	113	91	96	975
.7	98	110	112	103	110	107	108	102	111	86	1047
.8	76	114	110	115	71	104	92	94	96	104	976
.9	100	108	88	105	101	96	106	84	92	107	987
											10000

Degree of freedom = 90   CHI − SQUARE TEST   = 95.898

THE OBSERVED OF FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

a = 32771   x = 89745369

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	90	115	104	91	115	97	85	115	110	113	1025
.1	91	107	117	93	107	103	88	101	109	109	1025
.2	113	94	93	84	105	94	112	95	106	110	1006
.3	111	118	81	82	84	96	80	108	90	92	942
.4	103	106	108	113	103	90	100	89	100	102	1014
.5	112	106	110	86	78	93	102	107	97	106	987
.6	96	108	104	89	106	90	110	85	98	98	984
.7	103	91	118	107	102	102	105	122	90	93	1033
.8	90	85	85	95	83	105	113	99	84	117	956
.9	115	95	96	102	131	117	89	112	83	88	1028
											10000

Degree of freedom = 90   CHI – SQUARE TEST = 112.620

THE OBSERVED OF FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

$a = 32773$ $x = 89745369$

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	110	96	99	110	92	98	104	88	96	121	1014
.1	101	110	104	98	109	100	102	91	105	94	1014
.2	97	102	80	87	108	123	81	124	93	91	986
.3	102	100	122	110	108	104	92	100	94	102	1034
.4	117	91	100	107	114	90	96	100	81	94	990
.5	95	109	92	111	104	80	94	96	99	102	982
.6	95	112	96	101	86	90	89	101	120	83	973
.7	102	98	119	94	92	102	105	116	97	109	1034
.8	104	100	85	116	88	91	101	106	100	98	989
.9	92	96	88	100	89	104	109	112	104	90	984
											10000

Degree of freedom = 90   CHI — SQUARE TEST   = 93.150

THE OBSERVED OF FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

$a = 32775$ $x = 89745369$

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	105	93	90	94	114	99	107	107	93	103	1005
.1	110	98	93	93	87	98	104	94	104	113	994
.2	82	98	88	100	107	101	104	84	95	97	956
.3	98	94	88	105	94	96	92	107	88	97	959
.4	113	109	100	91	94	106	107	97	103	106	1026
.5	113	97	102	102	103	112	90	137	103	84	1043
.6	93	105	99	93	99	97	98	103	102	95	984
.7	102	108	96	90	118	116	96	116	103	103	1048
.8	94	87	114	87	101	117	95	100	91	91	977
.9	95	105	86	104	109	101	91	103	95	119	1008
											10000

Degree of freedom = 90   CHI — SQUARE TEST = 72.704

THE OBSERVED OF FREQUENCY OF RANDOM NUMBER FOR SERIAL TEST

$a = 32777$ $\qquad\qquad$ $x = 89745369$

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	100	86	102	111	110	89	113	92	124	96	1023
.1	102	110	101	116	98	91	94	128	86	111	1037
.2	88	99	75	91	88	114	99	89	107	96	946
.3	108	128	101	116	92	109	73	93	102	96	1044
.4	109	94	85	107	93	116	100	98	107	94	976
.5	105	118	99	90	105	105	80	94	111	94	1021
.6	102	103	83	97	85	104	85	97	90	93	934
.7	89	95	113	110	104	96	87	98	103	100	993
.8	115	95	88	101	101	108	97	112	97	115	1029
.9	106	99	105	100	88	94	92	102	102	102	997
											10000

Degree of freedom $= 90$ $\qquad$ CHI − SQUARE TEST $\qquad = 95.898$

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THE OBSERVED OF FREQUENCY OF RANDOM FOR SERIAL TEST

$a = 32779$ $x = 89745369$

I \ J	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Sum
.0	79	86	97	102	107	105	103	98	135	89	1001
.1	107	102	114	95	96	100	100	112	88	101	1015
.2	102	89	106	77	95	109	118	113	108	94	1011
.3	95	96	106	99	84	101	95	72	120	90	958
.4	86	100	109	100	111	89	96	86	105	101	983
.5	119	109	97	103	103	91	81	113	92	111	1019
.6	94	95	87	95	104	114	96	101	101	98	985
.7	99	113	98	107	94	100	98	99	84	105	997
.8	102	120	97	102	103	100	112	115	112	103	1066
.9	118	105	101	78	86	110	86	87	121	73	965
											10000

Degree of freedom = 90   CHI – SQUARE TEST   = 115.064

ผนวก ค.

ตัวอย่างของตารางเลขสุ่ม ที่สร้างด้วยเครื่องคอมพิวเตอร์ โดยวิธี
Multiplicative เมื่อใช้

$$a = 32763$$

$$x = 89745369$$

$$m = 1073741824 \quad (\text{หรือ } 2^{30})$$

TABLE OF RANDOM NUMBERS

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.40672429	.03463088	.66892733	.09269811	.84900145
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.78755309	.05455178	.45340293	.46481460	.28513916
.04287339	.81924439	.75398803	.63776991	.02231922
.10244729	.59661434	.44466207	.79389332	.40046479
.93507471	.18612514	.92219299	.88024499	.88462482
.24875733	.03127339	.42424063	.48210432	.04113026
.50044739	.01118392	.12541263	.67058167	.14060109
.01500301	.77856807	.63865145	.71214347	.95777701
.45745986	.84368222	.32094992	.31198356	.95299077
.85325977	.54482551	.42180895	.06232737	.17902344
.25282789	.45176902	.47925359	.34270905	.70544950
.53251108	.84687466	.06201436	.22393023	.27654257
.81218351	.20916241	.21562229	.92659801	.32124921
.22518336	.10022246	.80799775	.43719071	.99658687
.87768731	.08038719	.28480588	.02594143	.15489234
.62176873	.19804038	.27904509	.44807796	.21677561
.44571523	.00737735	.51044719	.52349754	.34393749
.45377597	.60304117	.05479690	.20134790	.37127602
.87161096	.53967303	.70007544	.13468855	.97412778
.34846040	.25448971	.52245500	.16284526	.88846100
.95407887	.17337743	.02519465	.87622737	.62570824
.21864520	.15039451	.89759960	.83860561	.83073034
.80095473	.94687536	.19336509	.01339023	.85749168
.45764245	.40081239	.99570940	.20028437	.12611872
.82506315	.50870621	.21126255	.62375019	.24405238
.67511113	.96127941	.14432575	.38002996	.58243618
.18295786	.25788733	.88959882	.42588431	.49744354
.84557741	.10372132	.48405582	.99572070	.23474933
.28880030	.21408070	.22277321	.74614029	.69202053
.55680020	.96007940	.48274210	.98717425	.15705326
.21539016	.21829127	.07042903	.89955699	.81119242
.18507736	.72508829	.45621436	.04330637	.14039407
.38331524	.60678414	.47568848	.46453197	.42275081
.93622779	.70450164	.64033825	.85908627	.32320676
.19824084	.89071804	.84097052	.04675795	.67215499
.94126041	.06049224	.57948901	.19026127	.54271852
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.53387617	.01216844	.12946420	.03309954	.99635865
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ประวัติการศึกษา

ชื่อและนามสกุล	นายสุเมธ วัชระชัยสุรพล
วุฒิ	วิทยาศาสตร์บัณฑิต (วท.บ.) สาขาสุขาภิบาล
สถาบันการศึกษา	มหาวิทยาลัยมหิดล
ปีการศึกษา	2513