

Apéndice 4

Tablas estadísticas

TABLA 1 Áreas bajo la curva normal

(1) <i>Puntuación "Z"</i>	(2) <i>Distancia de "Z" a la media</i>	(3) <i>Área de la parte mayor</i>	(4) <i>Área de la parte menor</i>
0.00	.0000	.5000	.5000
0.01	.0040	.5040	.4960
0.02	.0080	.5080	.4920
0.03	.0120	.5120	.4880
0.04	.0160	.5160	.4840
0.05	.0199	.5199	.4801
0.06	.0239	.5239	.4761
0.07	.0279	.5279	.4721
0.08	.0319	.5319	.4681
0.09	.0359	.5359	.4641
0.10	.0398	.5398	.4602
0.11	.0438	.5438	.4562
0.12	.0478	.5478	.4522
0.13	.0517	.5517	.4483
0.14	.0557	.5557	.4443
0.15	.0596	.5596	.4404
0.16	.0636	.5636	.4364
0.17	.0675	.5675	.4325
0.18	.0714	.5714	.4286
0.19	.0753	.5753	.4247
0.20	.0793	.5793	.4207
0.21	.0832	.5832	.4168
0.22	.0871	.5871	.4129
0.23	.0910	.5910	.4090
0.24	.0948	.5948	.4052
0.25	.0987	.5987	.4013
0.26	.1026	.6026	.3974
0.27	.1064	.6064	.3936
0.28	.1103	.6103	.3897
0.29	.1141	.6141	.3859
0.30	.1179	.6179	.3821

(1) Puntuación "Z"	(2) Distancia de "Z" a la media	(3) Área de la parte mayor	(4) Área de la parte menor
0.31	.1217	.6217	.3783
0.32	.1255	.6255	.3745
0.33	.1293	.6293	.3707
0.34	.1331	.6331	.3669
0.35	.1368	.6368	.3632
0.36	.1406	.6406	.3594
0.37	.1443	.6443	.3557
0.38	.1480	.6480	.3520
0.39	.1517	.6517	.3483
0.40	.1554	.6554	.3446
0.41	.1591	.6591	.3409
0.42	.1628	.6628	.3372
0.43	.1664	.6664	.3336
0.44	.1700	.6700	.3300
0.45	.1736	.6736	.3264
0.46	.1772	.6772	.3228
0.47	.1808	.6808	.3192
0.48	.1844	.6844	.3156
0.49	.1879	.6879	.3121
0.50	.1915	.6915	.3085
0.51	.1950	.6950	.3050
0.52	.1985	.6985	.3015
0.53	.2019	.7019	.2981
0.54	.2054	.7054	.2946
0.55	.2088	.7088	.2912
0.56	.2123	.7123	.2877
0.57	.2157	.7157	.2843
0.58	.2190	.7190	.2810
0.59	.2224	.7224	.2776
0.60	.2257	.7257	.2743
0.61	.2291	.7291	.2709
0.62	.2324	.7324	.2676
0.63	.2357	.7357	.2643
0.64	.2389	.7389	.2611
0.65	.2422	.7422	.2578
0.66	.2454	.7454	.2546
0.67	.2486	.7486	.2514
0.68	.2517	.7517	.2483
0.69	.2549	.7549	.2451
0.70	.2580	.7580	.2420
0.71	.2611	.7611	.2389
0.72	.2642	.7642	.2358
0.73	.2673	.7673	.2327
0.74	.2704	.7704	.2296

(1) Puntuación "Z"	(2) Distancia de "Z" a la media	(3) Área de la parte mayor	(4) Área de la parte menor
0.75	.2734	.7734	.2266
0.76	.2764	.7764	.2236
0.77	.2794	.7794	.2206
0.78	.2823	.7823	.2177
0.79	.2852	.7852	.2148
0.80	.2881	.7881	.2119
0.81	.2910	.7910	.2090
0.82	.2939	.7939	.2061
0.83	.2967	.7967	.2033
0.84	.2995	.7995	.2005
0.85	.3023	.8023	.1977
0.86	.3051	.8051	.1949
0.87	.3078	.8078	.1922
0.88	.3106	.8106	.1894
0.89	.3133	.8133	.1867
0.90	.3159	.8159	.1841
0.91	.3186	.8186	.1814
0.92	.3212	.8212	.1788
0.93	.3228	.8238	.1762
0.94	.3264	.8264	.1736
0.95	.3289	.8289	.1711
0.96	.3315	.8315	.1685
0.97	.3340	.8340	.1660
0.98	.3365	.8365	.1635
0.99	.3389	.8389	.1611
1.00	.3413	.8413	.1587
1.01	.3438	.8438	.1562
1.02	.3461	.8461	.1539
1.03	.3485	.8485	.1515
1.04	.3508	.8508	.1492
1.05	.3531	.8531	.1469
1.06	.3554	.8554	.1446
1.07	.3577	.8577	.1423
1.08	.3599	.8599	.1401
1.09	.3621	.8621	.1379
1.10	.3643	.8643	.1357
1.11	.3665	.8665	.1335
1.12	.3686	.8686	.1314
1.13	.3708	.8708	.1292
1.14	.3729	.8729	.1271
1.15	.3749	.8749	.1251
1.16	.3770	.8770	.1230
1.17	.3790	.8790	.1210
1.18	.3810	.8810	.1190

(1) Puntuación "Z"	(2) Distancia de "Z" a la media	(3) Área de la parte mayor	(4) Área de la parte menor
1.19	.3830	.8830	.1170
1.20	.3849	.8849	.1151
1.21	.3869	.8869	.1131
1.22	.3888	.8888	.1112
1.23	.3907	.8907	.1093
1.24	.3925	.8925	.1075
1.25	.3944	.8944	.1056
1.26	.3962	.8962	.1038
1.27	.3980	.8980	.1020
1.28	.3997	.8997	.1003
1.29	.4015	.9015	.0985
1.30	.4032	.9032	.0968
1.31	.4049	.9049	.0951
1.32	.4066	.9066	.0934
1.33	.4082	.9082	.0918
1.34	.4099	.9099	.0901
1.35	.4115	.9115	.0885
1.36	.4131	.9131	.0869
1.37	.4147	.9147	.0853
1.38	.4162	.9162	.0838
1.39	.4177	.9177	.0823
1.40	.4192	.9192	.0808
1.41	.4207	.9207	.0793
1.42	.4222	.9222	.0778
1.43	.4236	.9236	.0764
1.44	.4251	.9251	.0749
1.45	.4265	.9265	.0735
1.46	.4279	.9279	.0721
1.47	.4292	.9292	.0708
1.48	.4306	.9306	.0694
1.49	.4319	.9319	.0681
1.50	.4332	.9332	.0668
1.51	.4345	.9345	.0655
1.52	.4357	.9357	.0643
1.53	.4370	.9370	.0630
1.54	.4382	.9382	.0618
1.55	.4394	.9394	.0606
1.56	.4406	.9406	.0594
1.57	.4418	.9418	.0582
1.58	.4429	.9429	.0571
1.59	.4441	.9441	.0559
1.60	.4452	.9452	.0548
1.61	.4463	.9463	.0537
1.62	.4474	.9474	.0526

(1) Puntuación "Z"	(2) Distancia de "Z" a la media	(3) Área de la parte mayor	(4) Área de la parte menor
1.63	.4484	.9484	.0516
1.64	.4495	.9495	.0505
1.65	.4505	.9505	.0495
1.66	.4515	.9515	.0485
1.67	.4525	.9525	.0475
1.68	.4535	.9535	.0465
1.69	.4545	.9545	.0455
1.70	.4554	.9554	.0446
1.71	.4564	.9564	.0436
1.72	.4573	.9573	.0427
1.73	.4582	.9582	.0418
1.74	.4591	.9591	.0409
1.75	.4599	.9599	.0401
1.76	.4608	.9608	.0392
1.77	.4616	.9616	.0384
1.78	.4625	.9625	.0375
1.79	.4633	.9633	.0367
1.80	.4641	.9641	.0359
1.81	.4649	.9649	.0351
1.82	.4656	.9656	.0344
1.83	.4664	.9664	.0336
1.84	.4671	.9671	.0329
1.85	.4678	.9678	.0322
1.86	.4686	.9686	.0314
1.87	.4693	.9693	.0307
1.88	.4699	.9699	.0301
1.89	.4706	.9706	.0294
1.90	.4713	.9713	.0287
1.91	.4719	.9719	.0281
1.92	.4726	.9726	.0274
1.93	.4732	.9732	.0268
1.94	.4738	.9738	.0262
1.95	.4744	.9744	.0256
1.96	.4750	.9750	.0250
1.97	.4756	.9756	.0244
1.98	.4761	.9761	.0239
1.99	.4767	.9767	.0233
2.00	.4772	.9772	.0228
2.01	.4778	.9778	.0222
2.02	.4783	.9783	.0217
2.03	.4788	.9788	.0212
2.04	.4793	.9793	.0207
2.05	.4798	.9798	.0202
2.06	.4803	.9803	.0197

(1) Puntuación "Z"	(2) Distancia de "Z" a la media	(3) Área de la parte mayor	(4) Área de la parte menor
2.07	.4808	.9808	.0192
2.08	.4812	.9812	.0188
2.09	.4817	.9817	.0183
2.10	.4821	.9821	.0179
2.11	.4826	.9826	.0174
2.12	.4830	.9830	.0170
2.13	.4834	.9834	.0166
2.14	.4838	.9838	.0162
2.15	.4842	.9842	.0158
2.16	.4846	.9846	.0154
2.17	.4850	.9850	.0150
2.18	.4854	.9854	.0146
2.19	.4857	.9857	.0143
2.20	.4861	.9861	.0139
2.21	.4864	.9864	.0136
2.22	.4868	.9868	.0132
2.23	.4871	.9871	.0129
2.24	.4875	.9875	.0125
2.25	.4878	.9878	.0122
2.26	.4881	.9881	.0119
2.27	.4884	.9884	.0116
2.28	.4887	.9887	.0113
2.29	.4890	.9890	.0110
2.30	.4893	.9893	.0107
2.31	.4896	.9896	.0104
2.32	.4898	.9898	.0102
2.33	.4901	.9901	.0099
2.34	.4904	.9904	.0096
2.35	.4906	.9906	.0094
2.36	.4909	.9909	.0091
2.37	.4911	.9911	.0089
2.38	.4913	.9913	.0087
2.39	.4916	.9916	.0084
2.40	.4918	.9918	.0082
2.41	.4920	.9920	.0080
2.42	.4922	.9922	.0078
2.43	.4925	.9925	.0075
2.44	.4927	.9927	.0073
2.45	.4929	.9929	.0071
2.46	.4931	.9931	.0069
2.47	.4932	.9932	.0068
2.48	.4934	.9934	.0066
2.49	.4936	.9936	.0064
2.50	.4938	.9938	.0062

(1) Puntuación "Z"	(2) Distancia de "Z" a la media	(3) Área de la parte mayor	(4) Área de la parte menor
2.51	.4940	.9940	.0060
2.52	.4941	.9941	.0059
2.53	.4943	.9943	.0057
2.54	.4945	.9945	.0055
2.55	.4946	.9946	.0054
2.56	.4948	.9948	.0052
2.57	.4949	.9949	.0051
2.58	.4951	.9951	.0049
2.59	.4952	.9952	.0048
2.60	.4953	.9953	.0047
2.61	.4955	.9955	.0045
2.62	.4956	.9956	.0044
2.63	.4957	.9957	.0043
2.64	.4959	.9959	.0041
2.65	.4960	.9960	.0040
2.66	.4961	.9961	.0039
2.67	.4962	.9962	.0038
2.68	.4963	.9963	.0037
2.69	.4964	.9964	.0036
2.70	.4965	.9965	.0035
2.71	.4966	.9966	.0034
2.72	.4967	.9967	.0033
2.73	.4968	.9968	.0032
2.74	.4969	.9969	.0031
2.75	.4970	.9970	.0030
2.76	.4971	.9971	.0029
2.77	.4972	.9972	.0028
2.78	.4973	.9973	.0027
2.79	.4974	.9974	.0026
2.80	.4974	.9974	.0026
2.81	.4975	.9975	.0025
2.82	.4976	.9976	.0024
2.83	.4977	.9977	.0023
2.84	.4977	.9977	.0023
2.85	.4978	.9978	.0022
2.86	.4979	.9979	.0021
2.87	.4979	.9979	.0021
2.88	.4980	.9980	.0020
2.89	.4981	.9981	.0019
2.90	.4981	.9981	.0019
2.91	.4982	.9982	.0018
2.92	.4982	.9982	.0018
2.93	.4983	.9983	.0017
2.94	.4984	.9984	.0016

(1) Puntuación "Z"	(2) Distancia de "Z" a la media	(3) Área de la parte mayor	(4) Área de la parte menor
2.95	.4984	.9984	.0016
2.96	.4985	.9985	.0015
2.97	.4985	.9985	.0015
2.98	.4986	.9986	.0014
2.99	.4986	.9986	.0014
3.00	.4987	.9987	.0013
3.01	.4987	.9987	.0013
3.02	.4987	.9987	.0013
3.03	.4988	.9988	.0012
3.04	.4988	.9988	.0012
3.05	.4989	.9989	.0011
3.06	.4989	.9989	.0011
3.07	.4989	.9989	.0011
3.08	.4990	.9990	.0010
3.09	.4990	.9990	.0010
3.10	.4990	.9990	.0010
3.11	.4991	.9991	.0009
3.12	.4991	.9991	.0009
3.13	.4991	.9991	.0009
3.14	.4992	.9992	.0008
3.15	.4992	.9992	.0008
3.16	.4992	.9992	.0008
3.17	.4992	.9992	.0008
3.18	.4993	.9993	.0007
3.19	.4993	.9993	.0007
3.20	.4993	.9993	.0007
3.21	.4993	.9993	.0007
3.22	.4994	.9994	.0006
3.23	.4994	.9994	.0006
3.24	.4994	.9994	.0006
3.30	.4995	.9995	.0005
3.40	.4997	.9997	.0003
3.50	.4998	.9998	.0002
3.60	.4998	.9998	.0002
3.70	.4999	.9999	.0001

Fuente: Downie, N. M. y Heath, R. W. (1973), *Métodos estadísticos aplicados*, México, D. F., México: HARLA, pp. 320-327.

Fuente original: Edwards, A. L. (1954), *Statistical methods for the behavioral sciences*, Nueva York, NY, EE. UU.: Holt, Rinehart and Winston, 1954.

TABLA 2 Distribución *t* de Student

GRADOS DE LIBERTAD (GL)	NIVEL DE CONFIANZA 0.5	NIVEL DE CONFIANZA 0.1
1	6.3138	31.821
2	2.9200	6.965
3	2.3534	4.541
4	2.1318	3.747
5	2.0150	3.365
6	1.9432	3.143
7	1.8946	2.998
8	1.8595	2.896
9	1.8331	2.821
10	1.8125	2.764
11	1.7959	2.718
12	1.7823	2.681
13	1.7709	2.650
14	1.7613	2.624
15	1.7530	2.602
16	1.7459	2.583
17	1.7396	2.567
18	1.7341	2.552
19	1.7291	2.539
20	1.7247	2.528
21	1.7207	2.518
22	1.7171	2.508
23	1.7139	2.500
24	1.7109	2.492
25	1.7081	2.485
26	1.7056	2.479
27	1.7033	2.473
28	1.7011	2.467
29	1.6991	2.462
30	1.6973	2.457
35	1.6896	2.438
40	1.6839	2.423
45	1.6794	2.412
50	1.6759	2.403
60	1.6707	2.390
70	1.6669	2.381
80	1.6641	2.374
90	1.6620	2.368
100	1.6602	2.364
120	1.6577	2.358
140	1.6558	2.353
160	1.6545	2.350
180	1.6534	2.347
200	1.6525	2.345
∞	1.645	2.326

Fuente: Daniel, W. W. (1977). *Estadística con aplicaciones a las ciencias sociales y a la educación*. México, D. F., México: McGraw-Hill, p. 469.

Fuente original: Reproducido de *Documenta Geigy, Scientific tables (7a.ed.)*, cortesía de Ciba Geigy, Ltd. Basel, Suiza, 1970.

TABLA 3 Valores de F al nivel de confianza de .05 y .01

gl (gl intragrupos)	(gl entre grupos) P=.05												(gl entre grupos) P=.01											
	1	2	3	4	5	6	8	12	1	2	3	4	5	6	8	12								
1	161.4	199.5	215.7	224.6	230.2	234.0	238.9	243.9	4052	4999	5403	5625	5764	5859	5981	6106								
2	18.51	19.00	19.16	19.25	19.30	19.33	19.37	19.41	98.49	99.01	99.17	99.25	99.30	99.33	99.36	99.42								
3	10.13	9.55	9.28	9.12	9.01	8.94	8.84	8.74	34.12	30.81	29.46	28.71	28.24	27.91	27.49	27.05								
4	7.71	6.94	6.59	6.39	6.26	6.16	6.04	5.91	21.20	18.00	16.69	15.98	15.52	15.21	14.80	14.37								
5	6.61	5.79	5.41	5.19	5.05	4.95	4.82	4.68	16.26	13.27	12.06	11.39	10.97	10.67	10.27	9.89								
6	5.99	5.14	4.76	4.53	4.39	4.28	4.15	4.00	13.74	10.92	9.78	9.15	8.75	8.47	8.10	7.72								
7	5.59	4.74	4.35	4.12	3.97	3.87	3.73	3.57	12.25	9.55	8.45	7.85	7.46	7.19	6.84	6.47								
8	5.32	4.46	4.07	3.84	3.69	3.58	3.44	3.28	11.26	8.65	7.59	7.01	6.63	6.37	6.03	5.67								
9	5.12	4.26	3.86	3.63	3.48	3.27	3.23	3.07	10.56	8.02	6.99	6.42	6.06	5.80	5.47	5.11								
10	4.96	4.10	3.71	3.48	3.33	3.22	3.07	2.91	10.04	7.56	6.55	5.99	5.64	5.39	5.06	4.71								
11	4.84	3.98	3.59	3.36	3.20	3.09	2.95	2.79	9.65	7.20	6.22	5.67	5.32	5.07	4.74	4.40								
12	4.75	3.88	3.49	3.26	3.11	3.00	2.85	2.69	9.33	6.93	5.95	5.41	5.06	4.82	4.50	4.16								
13	4.67	3.80	3.41	3.18	3.02	2.92	2.77	2.60	9.07	6.70	5.74	5.20	4.86	4.62	4.30	3.96								
14	4.60	3.74	3.34	3.11	2.96	2.85	2.70	2.53	8.86	6.51	5.56	5.03	4.69	4.46	4.14	3.80								
15	4.54	3.68	3.29	3.06	2.90	2.79	2.64	2.48	8.68	6.36	5.52	4.89	4.56	4.32	4.00	3.67								
16	4.49	3.63	3.24	3.01	2.85	2.74	2.59	2.42	8.53	6.23	5.29	4.77	4.44	4.20	3.89	3.55								
17	4.45	3.59	3.20	2.96	2.81	2.70	2.55	2.38	8.40	6.11	5.18	4.67	4.34	4.10	3.79	3.45								
18	4.41	3.55	3.16	2.93	2.77	2.66	2.51	2.34	8.28	6.01	5.09	4.58	4.25	4.01	3.71	3.37								
19	4.38	3.52	3.13	2.90	2.74	2.63	2.48	2.31	8.18	5.93	5.01	4.50	4.17	3.94	3.63	3.30								
20	4.35	3.49	3.10	2.87	2.71	2.60	2.45	2.28	8.10	5.85	4.94	4.43	4.10	3.87	3.56	3.23								
21	4.32	3.47	3.07	2.84	2.68	2.57	2.42	2.25	8.02	5.78	4.87	4.37	4.04	3.81	3.51	3.17								
22	4.30	3.44	3.05	2.82	2.66	2.55	2.40	2.23	7.94	5.72	4.82	4.31	3.99	3.76	3.45	3.12								
23	4.28	3.42	3.03	2.80	2.64	2.53	2.38	2.20	7.88	5.66	4.76	4.26	3.94	3.71	3.41	3.07								
24	4.26	3.40	3.01	2.78	2.62	2.51	2.36	2.18	7.82	5.61	4.72	4.22	3.90	3.67	3.36	3.03								
25	4.24	3.38	2.99	2.76	2.60	2.49	2.34	2.16	7.77	5.57	4.68	4.18	3.86	3.63	3.32	2.99								
26	4.22	3.37	2.98	2.74	2.59	2.47	2.32	2.15	7.72	5.53	4.64	4.14	3.82	3.59	3.29	2.96								
27	4.21	3.35	2.96	2.73	2.57	2.46	2.30	2.13	7.68	5.49	4.60	4.11	3.78	3.56	3.26	2.93								
28	4.20	3.34	2.95	2.71	2.56	2.44	2.29	2.12	7.64	5.45	4.57	4.07	3.75	3.53	3.23	2.90								
29	4.18	3.33	2.93	2.70	2.54	2.43	2.28	2.10	7.60	5.42	4.54	4.04	3.73	3.50	3.20	2.87								
30	4.17	3.32	2.92	2.69	2.53	2.42	2.27	2.09	7.56	5.39	4.51	4.02	3.70	3.47	3.17	2.84								
40	4.08	3.23	2.84	2.61	2.45	2.34	2.18	2.00	7.31	5.18	4.31	3.83	3.51	3.29	2.99	2.66								
60	4.00	3.15	2.76	2.52	2.37	2.25	2.10	1.92	7.08	4.98	4.13	3.65	3.34	3.12	2.82	2.50								
120	3.92	3.07	2.68	2.45	2.29	2.17	2.02	1.83	6.85	4.79	3.95	3.48	3.17	2.96	2.66	2.34								
∞	3.84	2.99	2.60	2.37	2.21	2.09	1.94	1.75	6.64	4.60	3.78	3.32	3.02	2.80	2.51	2.18								

Nota: en caso de no hallar el número exacto de grados de libertad, se compara con un valor proporcional de F tomando en cuenta los grados de libertad más cercanos o se toma la categoría de grados de libertad más cercana (por ejemplo, si tenemos 55 gl intra tomamos la categoría de 60 gl intra).

Fuente: Levin, J. (1979). *Fundamentos de estadística en la investigación social*, México, D. F., México: HARLA, pp. 284-285.
Fuente original: Fisher, R. y Yates, F. (1963). *Statistical tables for biological, agricultural and medical research* (6a. Ed.). Edimburgo, Escocia: Oliver & Boyd.

Tabla 4 Valores de X2 a los niveles de confianza de .05 y .01

GRADOS DE LIBERTAD (gl)	NIVEL DE CONFIANZA	
	.05	.01
1	3.841	6.635
2	5.991	9.210
3	7.815	11.325
4	9.498	13.227
5	11.070	15.086
6	12.592	16.812
7	14.067	18.475
8	15.507	20.090
9	16.919	21.666
10	18.307	23.209
11	19.675	24.725
12	21.026	26.217
13	22.362	27.688
14	23.685	29.141
15	24.996	30.578
16	26.296	32.000
17	27.587	33.409
18	28.869	34.805
19	30.144	36.191
20	31.410	37.566
21	32.671	38.932
22	33.924	40.289
23	35.17	41.638
24	36.415	42.980
25	37.652	44.314
26	38.885	45.642
27	40.113	46.963
28	41.337	48.278
29	42.557	49.588
30	43.773	50.892
35	49.802	57.342
40	55.758	63.691
45	61.656	69.957
50	67.505	76.154
60	79.082	88.379
70	90.531	100.425
80	101.879	112.329
9	113.145	124.116
100	124.342	135.807

Fuente: Daniel, W. W. (1977). *Estadística con aplicaciones a las ciencias sociales y a la educación*. México, D. F., México: McGraw-Hill.
Fuente original: "A Table of Percentage Points of the X² Distribution", *Skandinavisk Aktuarietidskrift*, 33 (1950), 168-175.

TABLA 5 Números aleatorios o random

1	53	95	67	80	79	93	28	69	25	78	13	24	100	62	62	21	11	04	54	44	59	90	78	83	04	97	61	52	75	91	76	98	40	41	02	56	78	62	79	16
2	62	12	27	41	05	04	19	34	84	78	71	45	73	79	33	57	29	58	75	20	79	78	68	31	25	30	97	31	82	51	72	23	58	27	17	69	94	75	68	79
3	90	16	47	72	20	60	70	71	02	67	21	65	07	39	58	81	64	11	70	04	79	44	47	07	74	34	55	28	90	19	35	15	27	66	20	26	81	37	61	63
4	10	59	04	76	80	06	82	20	60	92	33	61	76	83	73	12	84	43	90	71	82	28	21	61	31	92	100	75	22	31	11	05	74	38	84	78	69	70	24	77
5	32	17	36	64	08	30	80	95	61	33	65	05	39	88	36	44	42	43	05	88	81	13	63	15	47	92	20	62	05	60	44	83	22	50	59	80	29	12	71	11
6	54	71	27	89	41	53	60	10	02	91	76	95	98	91	64	65	23	57	16	00	90	52	26	90	49	31	68	29	58	10	13	08	54	63	58	07	29	25	38	80
7	10	60	18	77	34	59	28	99	15	11	70	34	27	78	67	19	97	30	23	60	00	22	11	12	54	50	93	25	69	54	02	60	04	53	16	80	45	30	72	51
8	42	20	24	36	78	58	82	81	49	91	35	53	30	92	57	19	97	40	58	13	39	42	25	03	97	64	100	55	24	07	30	58	96	05	30	55	23	39	53	27
9	73	55	87	48	49	97	60	92	27	78	02	55	29	76	99	21	45	72	56	24	16	33	50	84	12	65	04	30	48	56	97	74	33	90	00	05	99	03	60	53
10	21	56	41	23	58	57	49	49	70	33	06	79	95	03	70	38	26	26	05	89	49	00	68	57	53	91	66	81	53	83	15	81	17	65	00	47	08	65	77	61
11	09	60	37	99	06	41	69	97	18	44	100	18	46	03	90	57	22	82	15	38	73	97	74	09	35	82	66	34	84	14	28	36	24	87	76	96	89	34	09	29
12	63	26	41	08	21	38	15	63	38	100	68	89	24	39	19	29	93	97	40	91	70	41	95	83	33	25	33	94	44	39	43	23	53	15	54	81	74	31	17	94
13	98	72	09	45	69	50	07	86	05	80	00	08	28	96	45	00	00	13	95	24	92	51	11	11	37	91	21	87	89	89	09	68	26	79	43	16	19	89	66	82
14	87	89	65	22	98	55	86	09	66	43	64	55	80	30	15	99	26	25	71	87	22	39	97	26	50	12	86	22	65	70	94	86	38	11	60	57	16	41	46	20
15	05	91	68	44	67	02	71	96	15	73	78	03	12	87	53	09	11	12	21	32	57	72	16	35	27	51	91	43	58	61	06	62	50	24	11	19	73	14	42	48
16	75	93	62	49	95	82	30	81	24	04	11	36	71	96	49	47	65	48	28	08	91	58	40	55	32	07	86	84	95	59	53	70	54	25	96	38	43	05	02	04
17	76	15	55	38	29	00	08	20	71	42	81	51	44	76	93	42	87	89	38	51	88	65	83	80	66	91	09	68	30	63	28	75	64	90	11	80	94	99	35	54
18	26	76	93	84	08	40	96	69	84	82	89	05	16	43	34	37	64	39	14	77	95	100	52	99	86	81	65	85	21	09	68	57	34	30	29	61	33	49	00	11
19	08	35	06	83	76	08	87	81	13	33	14	86	38	23	33	22	58	47	60	36	97	89	20	59	52	09	76	75	52	82	45	65	89	88	39	93	71	55	29	67
20	59	73	37	06	26	44	00	24	89	24	78	80	20	08	19	31	32	53	40	32	32	23	57	74	49	17	97	49	71	00	73	11	78	58	58	34	20	30	43	40
21	87	94	75	45	72	15	39	100	46	99	59	12	22	95	76	18	27	73	88	41	31	99	37	31	23	89	35	14	14	73	26	59	10	35	75	04	34	38	00	63
22	05	74	08	91	37	05	13	55	13	07	19	24	76	04	25	93	78	09	50	85	98	71	37	53	67	75	09	56	96	71	58	15	70	36	19	49	45	18	36	02
23	49	82	39	40	51	15	71	53	68	86	50	93	31	22	64	77	46	17	28	25	02	17	69	68	56	44	100	55	80	26	87	85	52	76	40	61	50	68	72	07
24	02	25	92	97	41	39	98	100	99	67	44	00	99	93	31	69	26	72	56	25	71	42	28	22	96	76	19	63	97	05	96	44	82	35	00	33	26	68	75	07
25	59	41	49	100	13	00	15	33	82	61	28	59	83	08	17	76	24	58	91	25	03	02	76	87	10	18	23	69	93	27	35	39	08	70	79	48	30	65	65	63
26	40	13	20	51	81	15	12	45	16	57	47	54	92	60	70	55	98	12	90	27	95	66	23	91	78	86	27	98	16	30	79	82	07	23	41	81	08	32	08	08
27	80	25	91	36	83	59	19	09	47	61	84	89	98	18	11	56	99	03	26	67	21	24	80	60	44	42	48	77	24	63	00	30	98	86	100	14	55	86	71	13
28	48	33	07	70	61	95	51	32	89	87	72	06	40	88	52	44	19	96	95	62	12	100	82	05	17	62	65	100	63	09	88	88	48	70	64	81	29	71	62	67
29	89	05	07	93	48	60	69	97	61	21	87	68	20	04	61	63	75	08	76	92	37	35	40	70	25	86	34	54	53	95	45	62	32	83	60	48	00	44	94	22
30	97	64	36	36	99	98	23	18	66	28	58	48	34	18	64	71	48	90	63	57	15	14	24	26	65	29	38	85	99	17	63	08	87	100	28	82	67	65	10	81
31	59	73	71	62	66	34	17	41	32	65	50	73	82	07	20	85	01	65	74	85	23	19	45	61	48	98	84	51	63	70	33	06	49	38	55	78	94	26	04	29
32	88	75	43	66	66	38	56	31	25	36	26	91	36	100	88	42	74	27	36	40	33	92	18	09	54	51	40	24	82	06	79	51	52	09	38	18	13	16	86	42
33	34	16	43	38	50	28	34	14	41	02	06	97	56	73	75	17	56	31	100	84	32	25	33	52	26	78	83	44	00	81	63	29	23	97	64	06	63	74	29	77
34	14	61	81	02	69	73	03	89	79	64	67	80	75	05	66	77	97	30	88	82	52	87	25	63	11	67	93	99	61	39	94	16	38	87	03	25	25	49	22	68
35	15	39	05	99	29	36	25	40	46	28	34	63	75	18	21	23	13	85	15	43	88	70	92	44	23	73	62	47	60	45	32	06	90	100	29	26	31	39	32	93
36	68	49	01	55	11	06	63	23	50	33	80	34	82	20	66	48	27	16	86	78	74	89	09	23	66	62	83	28	34	87	92	99	60	23	79	82	06	62	02	75
37	01	72	18	84	84	86	61	41	22	61	45	36	37	16	20	28	98	36	72	39	67	100	71	08	19	29	00	24	95	26	46	01	02	68	40	08	03	99	19	06
38	58	73	55	11	09	96	81	84	21	34	50	92	65	91	69	33	23	04	77	93	03	37	95	14	84	27	67	46	61	88	65	55	20	58	89	100	74	77	28	30
39	91	63	65	63	70	90	57	20	09	13	28	77	72	00	12	30	48	06	28	89	94	06	58	72	73	16	86	19	95	49	37	58	49	05	51	55	90	22	03	37
40	39	45	37	74	91	85	29	45	98	15	11	50	26	16	36	76	01	40	76	01	88	15	60	27	55	00	83	96	36	53	80	47	63	53	58	95	55	25	67	68
41	94	12	62	59	14	42	32	75	41	41	00	58	05	78	89	48	35	01	78	70	20	98	38	93	67	35	35	40	38	44	02	48	66	86	47	74	48	87	71	21
42	03	33	41	22	45	37	65	03	96	27	62	77	16	97	81	78	26	48	94	59	77	82	54	01	63	24														

TABLA 5 Números aleatorios o random

70	29	30	16	54	83	76	50	00	61	100	51	74	78	15	09	16	17	22	44	71	94	59	17	43	50	34	12	14	45	30	79	63	76	72	18	67	87	47	90	93
71	47	94	70	80	51	26	11	78	34	29	10	55	90	42	04	06	83	72	95	73	24	19	13	98	00	64	44	90	20	13	66	81	97	81	11	38	07	37	93	64
72	69	14	17	73	79	25	71	14	52	98	77	82	15	25	08	34	38	80	82	97	82	87	98	29	97	69	24	62	100	12	28	84	86	10	69	25	66	93	21	57
73	54	58	47	09	00	06	36	94	27	03	18	05	36	98	74	36	30	08	87	02	23	76	42	76	87	64	99	05	07	13	33	19	18	37	96	73	95	91	24	24
74	24	63	57	91	08	58	38	29	72	05	56	71	81	50	67	59	41	09	17	17	85	42	29	80	53	92	06	44	100	18	24	31	05	06	37	63	93	42	05	97
75	14	24	69	85	97	51	68	80	16	92	59	72	97	23	89	44	16	71	19	83	42	53	54	93	63	19	59	30	80	75	08	91	48	79	02	40	06	56	57	60
76	86	21	31	59	72	17	77	45	43	29	34	97	67	45	23	88	91	68	12	30	03	41	73	63	76	18	82	08	13	30	78	45	43	77	77	99	98	40	14	82
77	05	28	80	31	99	77	39	23	69	00	15	49	100	02	22	64	73	92	53	64	07	19	80	64	04	34	30	65	63	11	72	20	15	22	30	82	77	51	87	61
78	29	71	48	04	87	32	17	90	89	09	99	34	58	08	61	73	98	48	89	90	24	25	98	38	79	45	84	30	49	64	98	48	25	14	00	12	63	67	12	77
79	90	94	19	80	70	36	02	17	48	63	82	39	85	26	65	27	81	69	83	20	40	25	87	45	88	52	19	33	17	63	60	62	46	12	59	99	05	88	74	89
80	62	66	48	74	86	06	66	41	15	65	06	41	85	57	84	64	70	39	64	87	62	78	25	71	57	06	98	59	79	34	20	77	87	83	12	74	29	12	16	93
81	67	54	03	54	23	40	25	95	93	55	59	46	77	55	49	82	26	08	87	54	10	53	29	37	82	05	77	54	04	69	07	40	18	32	85	37	73	42	49	49
82	75	27	62	15	81	36	22	26	69	42	44	91	55	00	84	48	68	65	05	45	35	11	73	30	16	03	75	56	58	98	46	93	58	96	29	73	06	71	08	46
83	70	19	07	100	94	53	81	76	73	40	22	58	49	42	96	18	66	89	08	69	17	54	07	86	29	18	86	98	05	56	78	00	78	24	34	73	95	11	44	36
84	75	07	09	20	58	92	41	42	79	26	91	44	63	87	45	21	23	15	06	72	60	78	88	27	45	80	66	25	37	75	07	67	29	27	12	90	60	97	15	94
85	55	70	10	23	25	73	91	72	29	47	93	58	21	75	80	52	09	12	36	93	09	58	84	88	90	73	47	49	53	95	62	28	11	61	00	91	49	32	82	28
86	83	42	62	53	55	12	11	54	19	02	45	43	67	13	05	74	30	93	11	74	75	27	81	28	48	04	65	87	69	32	14	46	52	52	36	21	13	70	24	76
87	94	20	76	23	65	72	55	27	44	19	10	72	50	67	83	18	67	22	49	36	42	53	92	96	19	52	38	02	22	47	26	94	34	57	81	28	49	74	68	50
88	51	10	72	09	59	47	66	32	17	06	75	08	54	22	37	03	46	83	95	93	76	77	19	31	74	40	05	00	23	61	15	11	82	35	77	09	28	11	32	30
89	99	50	22	02	92	09	98	09	40	23	34	08	63	58	49	31	70	30	83	54	75	23	75	34	69	93	93	20	29	78	24	71	92	75	70	60	80	88	21	11
90	09	12	03	23	02	00	82	75	36	63	71	19	78	26	66	63	16	75	07	72	99	15	97	27	48	50	88	02	89	57	18	25	07	100	80	84	97	84	18	53
91	20	40	50	29	51	82	81	47	73	69	74	100	80	37	14	67	01	90	92	99	06	34	98	33	77	44	86	95	00	30	34	91	25	98	77	14	95	100	84	19
92	90	92	54	52	74	00	88	71	45	49	38	54	80	02	85	42	75	47	20	94	13	95	44	22	63	18	88	37	89	95	98	80	72	72	71	66	13	33	24	12
93	25	06	92	30	19	31	22	41	00	22	79	87	84	61	06	19	67	97	60	48	56	64	63	75	27	69	63	29	51	59	22	83	02	33	32	91	78	53	45	63
94	13	12	94	76	29	61	50	67	29	76	27	70	97	16	83	88	100	22	48	07	66	52	91	70	34	54	25	71	91	12	41	39	35	37	66	52	80	01	33	94
95	91	77	51	03	92	85	46	22	00	58	84	64	87	93	94	94	13	98	41	77	83	71	83	68	55	85	11	69	32	10	30	54	73	21	43	68	65	83	26	90
96	29	12	39	35	32	47	30	81	40	32	37	08	48	81	50	77	18	39	07	95	28	92	53	63	46	36	45	62	24	39	65	100	85	12	69	03	72	55	43	05
97	43	96	86	14	91	24	22	85	16	51	42	37	31	100	94	76	45	50	67	54	59	91	34	52	75	87	95	30	97	33	57	69	37	07	62	65	36	09	57	73
98	57	44	72	45	87	21	07	29	26	82	69	99	10	39	76	29	11	17	85	76	13	93	41	42	27	80	85	61	11	42	44	51	38	59	85	91	51	79	14	26
99	63	10	10	76	07	75	19	91	02	31	45	94	54	72	10	38	52	07	12	59	84	46	41	29	07	44	63	27	29	41	39	76	88	46	46	65	72	62	92	67
100	34	28	11	95	04	82	51	07	69	53	93	36	81	66	93	88	15	73	54	15	91	53	78	85	78	77	80	36	89	88	84	60	42	55	48	99	44	66	77	27