



Standard Practice for Random Sampling of Construction Materials¹

This standard is issued under the fixed designation D 3665; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the determination of random locations (or timing) at which samples of construction materials can be taken. For the exact physical procedures for securing the sample, such as a description of the sampling tool, the number of increments needed for a sample, or the size of the sample, reference should be made to the appropriate standard method. The selection procedures in Section 4 utilize the table of four-digit numbers given in Table 1.

1.2 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

C 172 Practice for Sampling Freshly Mixed Concrete²

C 183 Practice for Sampling and the Amount of Testing of Hydraulic Cement³

D 75 Practice for Sampling Aggregates⁴

D 140 Practice for Sampling Bituminous Materials⁴

D 345 Test Method for Sampling and Testing Calcium Chloride for Roads and Structural Applications⁴

D 979 Practice for Sampling Bituminous Paving Mixtures⁴

D 5361 Practice for Sampling Compacted Bituminous Mixtures for Laboratory Testing⁴

E 105 Practice for Probability Sampling of Materials⁵

E 122 Practice for Choice of Sample Size to Estimate a Measure of Quality for a Lot or Process⁵

E 141 Practice for Acceptance of Evidence Based on the Results of Probability Sampling⁵

3. Significance and Use

3.1 This practice is useful for determining the location or time, or both, to take a sample in order to eliminate any

intentional or minimize any unintentional bias on the part of the person taking the sample.

NOTE 1—The effectiveness of this practice in achieving random samples is limited only by the conscientiousness of the user in following the stipulated procedures.

3.2 A less detailed procedure is included in 5.8 for normal usage and is considered the most practical means except where the sampling is deemed extremely critical or where dispute is anticipated.

3.3 The selection procedures and examples in this standard provide a practical approach for ensuring that construction material samples are obtained in a random manner. Additional details concerning the number of sample increments, the number of samples, the quantities of material in each, and the procedures for extracting sample increments or samples from the construction lot or process are contained in Practices C 172, C 183, D 75, D 140, D 979, D 5361, and Test Method D 345.

3.4 This standard contains examples citing road and paving materials. The concepts outlined therein are applicable to the random sampling of any construction material and can easily be adapted thereto.

3.5 Additional sampling guidance is provided in Practice E 105 concerning probability sampling, Practice E 122 concerning choosing sample sizes to estimate the average quality of a lot or process (see Note 2), and in Practice E 141 for acceptance of evidence based on results of probability sampling.

NOTE 2—The guidance contained in Practice E 122 is not available in other documents referenced in this section.

3.6 The best and most practical method for ensuring that samples of construction materials include the full range of a construction process is by incorporating a stratified-random sampling procedure into the sampling process. To implement a stratified-random sampling procedure, divide the lot to be sampled into the desired number of equal sublots and randomly sample each subplot in accordance with this standard.

NOTE 3—If the sublots are of unequal size, it will likely be necessary to weight the samples in order to maintain a fair and defensible sampling process.

¹ This practice is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.30 on Methods of Sampling.

Current edition approved Dec. 10, 2002. Published February 2003. Originally approved in 1978. Last previous edition approved in 1999 as D 3665-99.

² Annual Book of ASTM Standards, Vol 04.02.

³ Annual Book of ASTM Standards, Vol 04.01.

⁴ Annual Book of ASTM Standards, Vol 04.03.

⁵ Annual Book of ASTM Standards, Vol 14.02.



TABLE 1 Table of Random Numbers

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	0.0747	0.9908	0.7128	0.1100	0.9586	0.6746	0.0618	0.6843	0.3724	0.5563	0.8697	0.3662	0.2156	0.8643	0.5692	0.3350	0.1634	0.9557	0.5128	0.0931
2	0.1579	0.5348	0.1094	0.0785	0.0694	0.3623	0.3153	0.4182	0.5431	0.2079	0.3439	0.9225	0.7096	0.0488	0.4475	0.9850	0.8570	0.6543	0.3945	0.2898
3	0.6545	0.2054	0.3654	0.4849	0.2375	0.7008	0.2302	0.8945	0.1050	0.0939	0.1701	0.3628	0.7326	0.3496	0.7584	0.3922	0.1801	0.3785	0.4230	0.6340
4	0.7771	0.5684	0.3641	0.2839	0.6441	0.3994	0.8714	0.7783	0.2312	0.4262	0.0885	0.5032	0.7120	0.3271	0.0299	0.9276	0.7909	0.4995	0.8441	0.1960
5	0.9950	0.6068	0.5177	0.7500	0.8845	0.0354	0.8100	0.7197	0.6280	0.0401	0.6457	0.6288	0.0941	0.9641	0.8883	0.9752	0.5257	0.0424	0.3186	0.0906
6	0.5446	0.6811	0.6317	0.8782	0.6486	0.6956	0.8084	0.8824	0.6280	0.4053	0.2713	0.7759	0.7327	0.8682	0.4024	0.6919	0.9935	0.2236	0.7590	0.7186
7	0.6074	0.4514	0.8458	0.8905	0.3272	0.4951	0.0502	0.3469	0.3596	0.2388	0.8058	0.8202	0.4848	0.0831	0.2729	0.7151	0.2286	0.2231	0.7040	0.4219
8	0.5230	0.3413	0.7700	0.2934	0.2938	0.2554	0.2626	0.2379	0.0901	0.5202	0.1786	0.0856	0.6858	0.6744	0.9953	0.9740	0.7905	0.3979	0.4505	0.7848
9	0.0520	0.2910	0.5071	0.4171	0.5374	0.5522	0.7310	0.2841	0.0657	0.0249	0.0365	0.7750	0.0494	0.3423	0.3946	0.7372	0.3917	0.2911	0.8452	0.8042
10	0.0748	0.5330	0.7781	0.8309	0.7996	0.6697	0.3624	0.5200	0.8251	0.3677	0.5843	0.2496	0.4569	0.5922	0.6591	0.2317	0.4693	0.9533	0.5194	0.0535
11	0.3358	0.7229	0.8300	0.1384	0.6163	0.4872	0.8737	0.5689	0.6916	0.4636	0.7601	0.8562	0.0905	0.2191	0.9436	0.3117	0.6782	0.0551	0.6850	0.0933
12	0.7081	0.5302	0.5939	0.1827	0.1605	0.7077	0.7009	0.3198	0.8479	0.8650	0.4269	0.8879	0.6123	0.8640	0.7456	0.9556	0.8055	0.2979	0.6098	0.4045
13	0.8174	0.2389	0.0459	0.8230	0.7066	0.4224	0.2721	0.2914	0.8115	0.0845	0.4523	0.1408	0.1431	0.1857	0.6462	0.2633	0.1187	0.3307	0.1954	0.5531
14	0.0716	0.3396	0.9098	0.7288	0.6059	0.3393	0.2086	0.7414	0.0848	0.2351	0.1697	0.7290	0.9382	0.6355	0.6787	0.6030	0.3747	0.6819	0.1364	0.3636
15	0.2529	0.8794	0.6920	0.3417	0.9636	0.3280	0.7914	0.8085	0.5540	0.7864	0.4288	0.1275	0.8081	0.2968	0.8627	0.4526	0.0200	0.2935	0.8056	0.0040
16	0.4752	0.2411	0.2463	0.2470	0.5404	0.1266	0.1145	0.4639	0.2283	0.4260	0.1380	0.4722	0.5792	0.9899	0.4385	0.1651	0.4184	0.1371	0.8905	0.4740
17	0.6979	0.3783	0.7200	0.2276	0.0572	0.8382	0.9163	0.6868	0.2053	0.5727	0.1066	0.1643	0.7234	0.3692	0.2995	0.3164	0.9847	0.0700	0.8433	0.8966
18	0.5614	0.3988	0.5652	0.1268	0.4177	0.8427	0.3762	0.6873	0.5737	0.7606	0.1704	0.3697	0.8076	0.8456	0.5040	0.5266	0.3728	0.4110	0.1436	0.9623
19	0.2788	0.6972	0.4797	0.2441	0.7747	0.6485	0.5865	0.3128	0.7903	0.7055	0.3607	0.4959	0.7487	0.5484	0.3194	0.7554	0.1183	0.7472	0.0318	0.4008
20	0.2812	0.5934	0.9148	0.9333	0.5009	0.9757	0.6600	0.9859	0.1909	0.7268	0.2068	0.6592	0.4497	0.1861	0.0135	0.2533	0.9124	0.4643	0.8099	0.1805
21	0.6309	0.8515	0.3480	0.1368	0.7117	0.1757	0.0988	0.4791	0.9198	0.0708	0.2446	0.3615	0.1746	0.7166	0.4975	0.6699	0.0348	0.7029	0.9215	0.4443
22	0.5220	0.5869	0.2445	0.6146	0.2442	0.9419	0.4498	0.8941	0.6362	0.5454	0.0960	0.8411	0.0698	0.5648	0.4896	0.9944	0.5984	0.2254	0.6556	0.8225
23	0.0367	0.0788	0.7110	0.5432	0.8802	0.4543	0.0061	0.9173	0.7080	0.7466	0.6456	0.6714	0.8891	0.7929	0.4613	0.5567	0.2219	0.6831	0.0439	0.1030
24	0.2365	0.6469	0.8719	0.7650	0.8271	0.5516	0.2984	0.1590	0.3044	0.7751	0.9164	0.5354	0.0701	0.5013	0.6013	0.3348	0.7550	0.1065	0.0102	0.8375
25	0.8922	0.7232	0.3066	0.3543	0.8840	0.0639	0.8259	0.4115	0.1595	0.3081	0.1912	0.6520	0.6833	0.3086	0.1654	0.7115	0.7264	0.2409	0.8952	0.6575
26	0.0943	0.1662	0.1803	0.8264	0.1687	0.7838	0.2524	0.4905	0.1142	0.4811	0.1718	0.3565	0.0952	0.5150	0.1531	0.4150	0.8746	0.6829	0.8359	0.1222
27	0.9332	0.1245	0.0262	0.3072	0.1351	0.0877	0.6815	0.8976	0.4724	0.9748	0.0434	0.5911	0.5598	0.7725	0.2647	0.7465	0.3009	0.4672	0.9710	0.9893
28	0.4946	0.6190	0.5937	0.3910	0.6759	0.8892	0.2855	0.0004	0.7832	0.1356	0.9162	0.7360	0.1013	0.4191	0.2380	0.8184	0.1405	0.5434	0.4854	0.9227
29	0.0630	0.2919	0.5379	0.8272	0.1324	0.6053	0.4478	0.0055	0.9065	0.0014	0.3814	0.0727	0.5280	0.6696	0.5537	0.5501	0.5440	0.0378	0.1409	0.7881
30	0.6668	0.8500	0.7617	0.2571	0.2540	0.4675	0.3331	0.0855	0.9079	0.0268	0.8455	0.9960	0.5665	0.7374	0.7797	0.0783	0.8599	0.2454	0.4307	0.4235
31	0.6406	0.6335	0.2593	0.7228	0.5771	0.9646	0.4596	0.8743	0.5377	0.8009	0.6740	0.2918	0.8753	0.1852	0.9272	0.1961	0.2731	0.0775	0.0377	0.0258
32	0.2988	0.2182	0.0113	0.8098	0.6283	0.5566	0.4806	0.0771	0.5818	0.6700	0.9389	0.8163	0.5862	0.1366	0.8261	0.9044	0.4760	0.9724	0.4503	0.4051
33	0.6889	0.2370	0.7518	0.7689	0.8429	0.2292	0.1696	0.1057	0.3036	0.1040	0.3345	0.2410	0.1404	0.9982	0.4077	0.3571	0.2290	0.1882	0.4284	0.2932
34	0.1398	0.7363	0.6408	0.1277	0.8468	0.8487	0.6217	0.6055	0.8929	0.1533	0.1627	0.5066	0.0591	0.0655	0.1285	0.5920	0.0051	0.7927	0.1480	0.7462
35	0.1854	0.9911	0.5553	0.5752	0.2484	0.8131	0.6099	0.8276	0.9034	0.4942	0.4624	0.9470	0.9441	0.0539	0.4048	0.3369	0.4748	0.2541	0.6429	0.1190
36	0.3035	0.2702	0.5624	0.3048	0.1477	0.8296	0.6968	0.6153	0.5983	0.2902	0.2174	0.8274	0.7860	0.0141	0.1342	0.5597	0.2327	0.2449	0.5768	0.7622
37	0.7579	0.7321	0.2534	0.9571	0.0215	0.2168	0.0617	0.0928	0.6293	0.5167	0.7073	0.6981	0.4296	0.6983	0.6984	0.8936	0.2720	0.5696	0.8189	0.0579
38	0.4876	0.4334	0.3236	0.4658	0.8652	0.8921	0.5114	0.7652	0.2528	0.7677	0.5511	0.2017	0.7097	0.8948	0.5753	0.7743	0.2817	0.9943	0.1874	0.3299
39	0.7680	0.3214	0.9594	0.4506	0.2975	0.2802	0.2635	0.1547	0.3633	0.6018	0.4974	0.7401	0.1218	0.5993	0.8663	0.6436	0.5925	0.5308	0.9360	0.6319
40	0.7817	0.8220	0.9475	0.9127	0.6915	0.4584	0.4788	0.5493	0.8437	0.1611	0.3686	0.5466	0.7931	0.9261	0.1749	0.8672	0.0372	0.3913	0.6677	0.1995
41	0.0729	0.9746	0.9929	0.8474	0.9447	0.4406	0.4870	0.3088	0.2927	0.2451	0.2693	0.3587	0.9601	0.5293	0.4998	0.3239	0.6544	0.1973	0.6690	0.2497
42	0.9706	0.5872	0.2386	0.1284	0.3553	0.6965	0.1784	0.8344	0.8521	0.9206	0.8580	0.6996	0.3555	0.7439	0.4123	0.6228	0.8439	0.9931	0.6970	0.1508
43	0.3713	0.4437	0.3558	0.6056	0.1722	0.8451	0.1562	0.9356	0.3748	0.8933	0.9741	0.8813	0.0184	0.3142	0.2396	0.8780	0.0506	0.7934	0.4754	0.9945
44	0.2486	0.5881	0.4711	0.4247	0.4139	0.3592	0.4101	0.1279	0.2326	0.1848	0.3285	0.2948	0.7429	0.5835	0.9345	0.8812	0.7191	0.7079	0.9803	0.4049
45	0.3179	0.0628	0.4342	0.9208	0.6107	0.3191	0.5897	0.1465	0.4713	0.1867	0.7419	0.7609	0.1216	0.2498	0.0449	0.0632	0.4057	0.6186	0.5988	0.5121
46	0.1669	0.8308	0.3289	0.3237	0.0224	0.6422	0.5053	0.0059	0.5207	0.4540	0.5799	0.5093	0.6188	0.7458	0.7865	0.0331	0.5898	0.3007	0.5316	0.8819



TABLE 1 Continued

47	0.8606	0.6998	0.7262	0.9596	0.3752	0.6680	0.8865	0.7282	0.7260	0.2978	0.1664	0.7030	0.3520	0.0284	0.4605	0.5233	0.9753	0.8413	0.2208	0.2321
48	0.2921	0.3652	0.9289	0.6231	0.2505	0.6322	0.3325	0.4549	0.3467	0.9969	0.8475	0.2412	0.2644	0.5970	0.2578	0.7180	0.0395	0.2301	0.8133	0.4175
49	0.2945	0.6689	0.7694	0.0342	0.2303	0.3648	0.1010	0.9168	0.0259	0.2229	0.9433	0.0864	0.5503	0.0736	0.6732	0.6538	0.4627	0.6473	0.2548	0.0571
50	0.5978	0.5914	0.5210	0.2474	0.7589	0.4715	0.9110	0.4563	0.0683	0.6866	0.5904	0.8100	0.7730	0.0444	0.9570	0.9705	0.4684	0.0355	0.8252	0.6726
51	0.1507	0.5050	0.8412	0.5442	0.9337	0.3083	0.2678	0.2192	0.4834	0.3795	0.2545	0.6225	0.9562	0.4044	0.5024	0.9703	0.7922	0.7734	0.0826	0.6793
52	0.7444	0.9194	0.4130	0.9534	0.8193	0.6766	0.0721	0.1843	0.8768	0.9736	0.6901	0.1637	0.8460	0.5258	0.4446	0.8162	0.9904	0.8543	0.8094	0.2807
53	0.0126	0.1474	0.2118	0.5538	0.5273	0.9977	0.4820	0.6939	0.2728	0.6969	0.5186	0.3981	0.1775	0.3026	0.5505	0.0356	0.1488	0.2636	0.6749	0.1999
54	0.5605	0.6620	0.8266	0.5841	0.4267	0.5307	0.3407	0.5876	0.4166	0.1043	0.4364	0.8745	0.2539	0.6413	0.2356	0.2203	0.2761	0.9887	0.9783	0.1766
55	0.0937	0.8387	0.6747	0.7612	0.5783	0.2466	0.9294	0.1136	0.2364	0.2740	0.9443	0.4366	0.3653	0.1492	0.2151	0.6274	0.9394	0.4957	0.8779	0.3501
56	0.5380	0.6102	0.7370	0.5890	0.2758	0.7223	0.3554	0.5742	0.0658	0.9992	0.9606	0.7717	0.3238	0.3650	0.4640	0.8063	0.8832	0.3056	0.2085	0.8704
57	0.7027	0.9635	0.6633	0.4997	0.7711	0.8226	0.5463	0.2822	0.9240	0.6397	0.7549	0.7463	0.8380	0.7949	0.8423	0.9464	0.5340	0.9464	0.1370	0.0751
58	0.3282	0.5104	0.0391	0.5707	0.3488	0.6893	0.2000	0.5767	0.0868	0.0529	0.2923	0.6433	0.9890	0.7843	0.1780	0.8631	0.5090	0.0115	0.6294	0.8167
59	0.6948	0.2944	0.1715	0.0158	0.0622	0.7561	0.6808	0.4140	0.8114	0.3863	0.9609	0.9397	0.5282	0.5744	0.0143	0.4601	0.3683	0.8917	0.9717	0.4765
60	0.3680	0.0120	0.7593	0.4348	0.1198	0.5772	0.5542	0.5356	0.4234	0.1514	0.1527	0.5877	0.1661	0.0861	0.3674	0.2438	0.2999	0.2455	0.1598	0.0186
61	0.3666	0.4702	0.5449	0.9512	0.3968	0.6048	0.9625	0.5151	0.1109	0.7336	0.9627	0.6291	0.7782	0.2500	0.3411	0.5361	0.3144	0.2936	0.5391	0.7337
62	0.4779	0.3843	0.3070	0.8244	0.2025	0.1873	0.7618	0.9541	0.0795	0.5357	0.9009	0.8630	0.1490	0.4371	0.9228	0.9105	0.2092	0.2547	0.7648	0.6051
63	0.1569	0.4033	0.8388	0.1427	0.2234	0.0984	0.7973	0.4004	0.0137	0.8728	0.6952	0.2943	0.7041	0.4833	0.9555	0.3485	0.9844	0.8756	0.3212	0.8539
64	0.9296	0.4026	0.3679	0.1983	0.6062	0.8032	0.7876	0.7873	0.7805	0.2171	0.4709	0.7495	0.3877	0.7607	0.3906	0.9517	0.8392	0.9016	0.9220	0.6876
65	0.5129	0.2856	0.6878	0.1093	0.0917	0.8091	0.1132	0.6369	0.5430	0.4728	0.4405	0.7196	0.0438	0.3914	0.1964	0.0066	0.3990	0.8635	0.4213	0.5562
66	0.6498	0.2866	0.8215	0.7569	0.8258	0.6713	0.7454	0.2531	0.5081	0.0485	0.8473	0.7222	0.9314	0.6954	0.8166	0.4544	0.9367	0.3612	0.3774	0.9309
67	0.4401	0.6613	0.8031	0.9413	0.2343	0.6336	0.6982	0.9691	0.0470	0.3005	0.8168	0.3544	0.1872	0.7753	0.4403	0.9101	0.7849	0.8465	0.4373	0.3699
68	0.5944	0.2501	0.9476	0.7253	0.8045	0.4499	0.6298	0.8618	0.1360	0.5653	0.0919	0.6385	0.1603	0.1194	0.4467	0.6067	0.0178	0.4399	0.8087	0.0718
69	0.9048	0.3332	0.9516	0.0400	0.8240	0.1274	0.0778	0.1891	0.5864	0.5888	0.4321	0.3758	0.7005	0.9135	0.3221	0.2133	0.2405	0.8734	0.9854	0.2052
70	0.4308	0.7707	0.7304	0.2390	0.2115	0.1442	0.3487	0.1340	0.3618	0.8733	0.0260	0.5575	0.3831	0.4248	0.5899	0.6072	0.9599	0.1942	0.5332	0.0201
71	0.1392	0.5901	0.3090	0.5788	0.8175	0.8394	0.8911	0.8303	0.3097	0.1597	0.5262	0.9800	0.2051	0.9449	0.3895	0.8316	0.0242	0.9563	0.5458	0.6672
72	0.5487	0.2821	0.4374	0.5410	0.7217	0.5819	0.2809	0.3042	0.0480	0.7861	0.6100	0.5351	0.2368	0.3726	0.8557	0.2585	0.4065	0.1906	0.1325	0.3523
73	0.2947	0.4902	0.1557	0.4568	0.5087	0.5816	0.2711	0.8052	0.4062	0.9235	0.3254	0.7742	0.8556	0.0844	0.1230	0.6888	0.4823	0.0923	0.9997	0.5276
74	0.7147	0.9137	0.5699	0.6089	0.5649	0.9588	0.4168	0.1416	0.3746	0.6560	0.2868	0.7185	0.3434	0.1388	0.1932	0.4558	0.5022	0.4424	0.1169	0.0083
75	0.4926	0.3771	0.9265	0.6507	0.1613	0.7691	0.4678	0.3727	0.9567	0.9987	0.4252	0.0145	0.9876	0.7888	0.2779	0.8666	0.2150	0.3281	0.3402	0.0018
76	0.4674	0.0198	0.5795	0.0649	0.8135	0.9230	0.7243	0.1768	0.8337	0.0237	0.9099	0.5271	0.4446	0.5688	0.1897	0.6642	0.0709	0.7551	0.7175	0.7440
77	0.3293	0.1251	0.7933	0.6176	0.2683	0.5346	0.3693	0.5331	0.0181	0.2805	0.7397	0.9618	0.8447	0.1794	0.9773	0.9602	0.9731	0.6823	0.0128	0.9258
78	0.0652	0.9838	0.4617	0.5622	0.8400	0.6345	0.6449	0.6037	0.1133	0.5418	0.7985	0.9017	0.2848	0.7521	0.1641	0.3135	0.9613	0.3782	0.7488	0.6530
79	0.9192	0.1755	0.4934	0.9169	0.4889	0.8808	0.5973	0.8731	0.4021	0.7300	0.5868	0.5621	0.3228	0.1539	0.2982	0.1131	0.6837	0.6909	0.6092	0.6800
80	0.3599	0.5328	0.1188	0.7354	0.3300	0.7343	0.1345	0.8282	0.4039	0.9426	0.6184	0.5593	0.2635	0.4028	0.4111	0.6763	0.9351	0.5491	0.0146	0.8687
81	0.6161	0.1653	0.6206	0.2232	0.7515	0.5096	0.9421	0.4847	0.1702	0.9030	0.8130	0.5485	0.4105	0.2295	0.4418	0.6566	0.8471	0.9508	0.0635	0.3982
82	0.5796	0.4016	0.0741	0.3600	0.2489	0.8673	0.2184	0.9103	0.8605	0.9399	0.1226	0.4040	0.2013	0.2796	0.8235	0.1333	0.1339	0.8406	0.9892	0.3472
83	0.3215	0.8868	0.6038	0.8110	0.5565	0.4338	0.3352	0.6682	0.3576	0.5102	0.6706	0.3868	0.8377	0.5732	0.1679	0.8735	0.8572	0.2213	0.2180	0.3427
84	0.5602	0.0173	0.3999	0.4352	0.7140	0.4794	0.2970	0.5664	0.3617	0.2694	0.1907	0.4170	0.0601	0.6798	0.9341	0.5178	0.8021	0.1992	0.3019	0.6480
85	0.9372	0.6589	0.9288	0.2983	0.7088	0.4070	0.6947	0.2557	0.0570	0.8775	0.5808	0.4147	0.2382	0.2087	0.4347	0.0738	0.7188	0.6080	0.0187	0.5629
86	0.3892	0.7718	0.7345	0.8721	0.5769	0.1898	0.5975	0.4881	0.7586	0.3839	0.0811	0.6715	0.9723	0.6164	0.4804	0.2820	0.7682	0.9307	0.1217	0.8480
87	0.2065	0.0765	0.9466	0.0772	0.9158	0.6097	0.9762	0.3629	0.6987	0.9973	0.1265	0.6523	0.2669	0.2031	0.8397	0.5006	0.7623	0.9954	0.9735	0.7704
88	0.7992	0.6325	0.6902	0.6895	0.5526	0.7721	0.4660	0.0517	0.4878	0.8039	0.2865	0.3418	0.7893	0.0839	0.2577	0.8982	0.9895	0.0358	0.1233	0.6721
89	0.2340	0.3265	0.9096	0.3970	0.4952	0.7245	0.2177	0.3874	0.0989	0.4196	0.8886	0.3815	0.7037	0.9487	0.1102	0.5633	0.7006	0.5581	0.7433	0.0071
90	0.3337	0.8152	0.1734	0.6126	0.4688	0.3318	0.7621	0.9503	0.6045	0.8306	0.9782	0.9869	0.4350	0.3698	0.4699	0.4236	0.2106	0.5698	0.6103	0.2894
91	0.4703	0.9472	0.9548	0.9946	0.7408	0.3305	0.0816	0.5943	0.2962	0.8129	0.8989	0.9750	0.4470	0.1229	0.5589	0.1433	0.3665	0.9938	0.6666	0.5107
92	0.8669	0.8504	0.0420	0.9482	0.7545	0.9114	0.9005	0.9224	0.3451	0.1089	0.9889	0.1810	0.7678	0.2699	0.8655	0.6891	0.8180	0.2737	0.5592	0.8177
93	0.2346	0.3801	0.2655	0.7637	0.7842	0.1301	0.0703	0.3258	0.1058	0.3000	0.1422	0.6673	0.6535	0.9290	0.0274	0.8054	0.9642	0.2479	0.3807	0.6894
94	0.2088	0.2786	0.3220	0.8361	0.2130	0.1551	0.6518	0.7365	0.7852	0.6064	0.7367	0.1382	0.6807	0.8698	0.4680	0.2867	0.0903	0.8587	0.2714	0.5058
95	0.8481	0.6247	0.5632	0.6675	0.3809	0.5411	0.9183	0.4527	0.9331	0.7709	0.8947	0.4610	0.6783	0.2274	0.9252	0.6667	0.3926	0.4410	0.8749	0.0946



TABLE 1 Continued

	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
96	0.5504	0.3395	0.4908	0.5972	0.7803	0.8684	0.3251	0.5187	0.4900	0.6371	0.7024	0.3064	0.5083	0.0871	0.5272	0.4226	0.4925	0.2143	0.8181	0.4355
97	0.5011	0.9713	0.0759	0.3213	0.5479	0.0286	0.9488	0.0961	0.4072	0.4431	0.2600	0.2112	0.8159	0.4557	0.6106	0.1875	0.8278	0.0343	0.6772	0.0472
98	0.3330	0.3833	0.3011	0.3025	0.8370	0.3993	0.9858	0.3856	0.7198	0.8616	0.6886	0.3478	0.4228	0.9794	0.8507	0.9031	0.3429	0.4037	0.8527	0.1752
99	0.5283	0.6238	0.6261	0.0374	0.2622	0.5267	0.5403	0.5261	0.6574	0.7889	0.9112	0.6007	0.7442	0.8965	0.1240	0.1341	0.9045	0.9915	0.3114	0.5756
100	0.1383	0.2684	0.8603	0.8311	0.0448	0.1927	0.7452	0.3259	0.1688	0.4119	0.7062	0.0524	0.4555	0.3955	0.9094	0.4504	0.4275	0.6933	0.4719	0.6156
1	0.4032	0.4317	0.5014	0.0457	0.1686	0.5467	0.1120	0.7830	0.8776	0.3841	0.0056	0.9343	0.8078	0.7761	0.7501	0.8744	0.6352	0.7163	0.6262	0.0904
2	0.4390	0.7072	0.8041	0.0212	0.2193	0.6384	0.1195	0.2257	0.9806	0.0122	0.6527	0.7766	0.3433	0.5381	0.1840	0.6884	0.6135	0.9519	0.5728	0.7015
3	0.0818	0.0315	0.8113	0.1197	0.2139	0.2159	0.6311	0.9797	0.5199	0.6258	0.3773	0.3156	0.8023	0.1036	0.8544	0.3203	0.0027	0.6928	0.6254	0.2959
4	0.1947	0.8558	0.1970	0.0629	0.2574	0.5385	0.4208	0.2080	0.4950	0.6278	0.8632	0.3817	0.1175	0.6310	0.5926	0.7785	0.7240	0.2243	0.9458	0.0222
5	0.1248	0.6276	0.1007	0.3949	0.6423	0.9369	0.8990	0.3603	0.1130	0.8700	0.1985	0.6505	0.7961	0.4665	0.1796	0.5279	0.3428	0.3967	0.3930	0.8946
6	0.1529	0.2969	0.6870	0.0275	0.8232	0.4281	0.6253	0.2908	0.0782	0.8077	0.3111	0.9679	0.5846	0.5322	0.4207	0.9047	0.0129	0.5527	0.0266	0.2568
7	0.3696	0.8613	0.9755	0.3533	0.4291	0.8383	0.8856	0.3622	0.7173	0.0320	0.0244	0.3604	0.1330	0.7560	0.8931	0.4479	0.8716	0.8221	0.7968	0.8446
8	0.6323	0.7710	0.4935	0.0235	0.0012	0.2665	0.1320	0.1581	0.2221	0.5604	0.7890	0.0846	0.7907	0.2483	0.0250	0.9591	0.3514	0.5500	0.4439	0.4102
9	0.2744	0.9018	0.9544	0.4817	0.8815	0.9585	0.3034	0.8083	0.0663	0.6612	0.6500	0.6158	0.7492	0.0532	0.3315	0.4517	0.0745	0.4435	0.1570	0.3997
10	0.0870	0.5560	0.8242	0.8141	0.4341	0.6577	0.2725	0.7486	0.7921	0.3865	0.2874	0.1738	0.3730	0.2961	0.9608	0.0684	0.8070	0.8262	0.2044	0.4159
11	0.3531	0.6654	0.0322	0.4803	0.9119	0.8124	0.8118	0.8450	0.6399	0.9193	0.4758	0.0830	0.0209	0.0938	0.0566	0.9242	0.9547	0.5785	0.5641	0.7603
12	0.5535	0.0732	0.0837	0.1736	0.3167	0.6651	0.8531	0.7212	0.1578	0.6737	0.4388	0.9864	0.6166	0.7713	0.2656	0.5284	0.9994	0.7788	0.3753	0.0270
13	0.0511	0.8869	0.2165	0.9620	0.7303	0.8778	0.6041	0.0013	0.4445	0.7966	0.0558	0.7758	0.9999	0.7727	0.3243	0.9857	0.5205	0.3754	0.2602	0.6855
14	0.9936	0.9937	0.3757	0.0804	0.6011	0.1544	0.1862	0.3084	0.4582	0.5755	0.4668	0.8810	0.4916	0.8495	0.5026	0.9600	0.6932	0.7305	0.5082	0.7963
15	0.5111	0.5606	0.6661	0.4822	0.0382	0.1129	0.4069	0.2616	0.1626	0.3340	0.7017	0.5916	0.7107	0.3506	0.0692	0.9675	0.3950	0.4629	0.8457	0.3864
16	0.5170	0.4137	0.5241	0.3687	0.0461	0.2090	0.9963	0.6022	0.7058	0.5408	0.2832	0.8861	0.5468	0.6065	0.7994	0.5520	0.6784	0.3162	0.5776	0.4607
17	0.7162	0.7211	0.3829	0.1011	0.4941	0.8419	0.3845	0.2639	0.2845	0.8169	0.4938	0.7826	0.6641	0.9902	0.0540	0.3522	0.7786	0.3835	0.3249	0.4098
18	0.6906	0.5291	0.4232	0.5618	0.1201	0.3108	0.1820	0.6419	0.6096	0.5941	0.8703	0.1108	0.4186	0.8801	0.9614	0.5711	0.3729	0.1642	0.1623	0.6400
19	0.1795	0.5164	0.4279	0.4937	0.1215	0.1446	0.3175	0.8212	0.2745	0.4897	0.1520	0.6287	0.6475	0.9411	0.8351	0.4521	0.4530	0.7675	0.8770	0.2050
20	0.6329	0.0149	0.2117	0.5415	0.5398	0.4041	0.4784	0.4287	0.0998	0.0062	0.6914	0.9561	0.7292	0.3132	0.3796	0.5874	0.0084	0.9870	0.0124	0.2922
21	0.3879	0.8954	0.3051	0.1453	0.8305	0.9658	0.6757	0.1835	0.0640	0.7774	0.9366	0.3082	0.9957	0.5176	0.2383	0.2116	0.5016	0.2603	0.3180	0.2950
22	0.6307	0.3722	0.4973	0.1390	0.0631	0.6468	0.0236	0.7142	0.6375	0.2472	0.1379	0.9490	0.5861	0.9531	0.5748	0.3657	0.0754	0.7787	0.2708	0.5323
23	0.1122	0.1361	0.4686	0.8273	0.4289	0.7509	0.0673	0.0929	0.0217	0.5347	0.8884	0.2819	0.8829	0.5935	0.6814	0.0445	0.3309	0.6938	0.5393	0.5977
24	0.8048	0.1365	0.5080	0.7480	0.1517	0.2677	0.3511	0.8836	0.8367	0.9527	0.2666	0.5609	0.9855	0.0977	0.4747	0.6899	0.5268	0.6944	0.8604	0.0975
25	0.6537	0.7856	0.4160	0.4690	0.2362	0.8127	0.2670	0.7451	0.2561	0.8517	0.3189	0.2482	0.7094	0.6313	0.3121	0.9824	0.4217	0.2937	0.0118	0.0380
26	0.9353	0.8393	0.8171	0.3127	0.5063	0.8849	0.9149	0.4416	0.1561	0.3889	0.7368	0.7089	0.2712	0.1498	0.4714	0.9293	0.5569	0.2596	0.1288	0.8960
27	0.9400	0.2036	0.5127	0.6694	0.4093	0.0667	0.8332	0.0969	0.7207	0.8182	0.4460	0.6539	0.1400	0.4634	0.8827	0.2551	0.2661	0.9078	0.8573	0.1192
28	0.2239	0.4029	0.3063	0.4398	0.7552	0.2757	0.2926	0.1656	0.4827	0.4384	0.9593	0.8218	0.0005	0.7715	0.4100	0.4190	0.7591	0.6785	0.5402	0.2570
29	0.2876	0.9702	0.9232	0.4473	0.7585	0.0533	0.3639	0.1608	0.5327	0.6304	0.0715	0.6877	0.4894	0.3257	0.2853	0.6597	0.1596	0.0289	0.8314	0.0384
30	0.0227	0.6122	0.3334	0.9033	0.4106	0.1189	0.3207	0.0103	0.3849	0.0636	0.8319	0.7542	0.3109	0.4716	0.7307	0.7821	0.8267	0.0790	0.2227	0.7906
31	0.6717	0.4566	0.2084	0.0065	0.5738	0.1802	0.0117	0.9153	0.6812	0.5234	0.4880	0.5455	0.2228	0.7150	0.0078	0.6183	0.6207	0.6975	0.8321	0.9155
32	0.2266	0.1962	0.4700	0.8862	0.5265	0.6863	0.6098	0.7971	0.5203	0.5042	0.7600	0.0522	0.7091	0.2842	0.0319	0.3014	0.6120	0.6599	0.7167	0.1202
33	0.9701	0.6054	0.3389	0.1003	0.9371	0.9075	0.3569	0.3707	0.7032	0.0607	0.6004	0.9766	0.8923	0.0656	0.4578	0.1785	0.7679	0.8126	0.7093	0.0197
34	0.7918	0.8516	0.5097	0.9952	0.0521	0.8701	0.9980	0.3959	0.3884	0.1472	0.0907	0.6432	0.2980	0.8320	0.9818	0.0432	0.2885	0.6705	0.0396	0.6610
35	0.9393	0.4509	0.4913	0.4492	0.6892	0.3479	0.4775	0.2395	0.9698	0.7417	0.5616	0.4407	0.3092	0.2399	0.4183	0.0793	0.2173	0.5495	0.4345	0.7998
36	0.8219	0.2727	0.3934	0.6346	0.4340	0.7053	0.1407	0.8595	0.9318	0.7281	0.2686	0.2663	0.2738	0.1017	0.0643	0.8061	0.9374	0.6875	0.0131	0.0405
37	0.6559	0.4027	0.7634	0.1451	0.3670	0.6286	0.7511	0.3060	0.5211	0.1018	0.1377	0.1186	0.7478	0.5372	0.3119	0.4400	0.8366	0.9340	0.7908	0.3567
38	0.3882	0.4816	0.5613	0.3277	0.0584	0.7067	0.3786	0.7016	0.6198	0.7428	0.4598	0.9161	0.5270	0.5028	0.3269	0.8853	0.5043	0.0353	0.2536	0.9726
39	0.6865	0.5929	0.2014	0.4038	0.8234	0.5155	0.6427	0.1415	0.9506	0.7674	0.1044	0.1156	0.1486	0.8583	0.0699	0.1919	0.4507	0.3152	0.7726	0.1055
40	0.3980	0.8975	0.7476	0.7936	0.7941	0.3924	0.2102	0.2098	0.5498	0.7827	0.2385	0.5623	0.3768	0.8885	0.5660	0.0927	0.1878	0.0050	0.4181	0.0413
41	0.5157	0.2668	0.5693	0.0309	0.6246	0.7859	0.6927	0.9676	0.5954	0.3224	0.4580	0.1928	0.6716	0.5335	0.6360	0.4625	0.6069	0.7174	0.4476	0.0327
42	0.3790	0.4076	0.8277	0.6199	0.2223	0.3498	0.0442	0.5037	0.3043	0.0359	0.1629	0.4903	0.1357	0.3394	0.5525	0.7708	0.9525	0.3632	0.3101	0.3248



TABLE 1 Continued

43	0.7620	0.9737	0.7215	0.0596	0.4211	0.3643	0.4587	0.6826	0.4991	0.0965	0.4314	0.5094	0.2949	0.1478	0.8760	0.1311	0.9831	0.9791	0.6405	0.9681
44	0.1825	0.9300	0.4214	0.0843	0.4626	0.9154	0.5221	0.4346	0.2733	0.9212	0.9498	0.1730	0.8363	0.4360	0.2350	0.8295	0.3343	0.4113	0.1149	0.2985
45	0.0789	0.9961	0.5826	0.7963	0.8034	0.9480	0.0690	0.9538	0.5933	0.2645	0.3886	0.3341	0.3715	0.8093	0.2429	0.8376	0.9558	0.8564	0.9485	0.6698
46	0.5355	0.5392	0.7265	0.3820	0.6130	0.3130	0.4174	0.7168	0.6565	0.4015	0.9793	0.9406	0.0073	0.4391	0.4581	0.3836	0.7686	0.7870	0.9590	0.7806
47	0.4515	0.1126	0.5065	0.2270	0.7071	0.1665	0.1565	0.7043	0.7134	0.4946	0.0893	0.0092	0.2689	0.4382	0.7277	0.9629	0.2824	0.8513	0.7769	0.1258
48	0.5054	0.9179	0.6087	0.1807	0.3794	0.0030	0.7508	0.3936	0.1563	0.4761	0.1826	0.8015	0.1949	0.8074	0.6656	0.1205	0.5441	0.8705	0.6483	0.9195
49	0.4075	0.0393	0.6079	0.1812	0.6114	0.6178	0.7278	0.7481	0.1155	0.4377	0.2685	0.6725	0.2245	0.4343	0.9928	0.1280	0.4440	0.9696	0.5510	0.3452
50	0.9781	0.5989	0.6904	0.2376	0.1312	0.6301	0.4422	0.5215	0.1062	0.8904	0.3118	0.9440	0.7378	0.2314	0.3102	0.5067	0.3840	0.5004	0.0867	0.2201
51	0.4970	0.0686	0.6734	0.2707	0.9511	0.9828	0.4839	0.6150	0.4910	0.7407	0.0959	0.1374	0.9827	0.2510	0.4962	0.2004	0.6424	0.5494	0.6060	0.8185
52	0.0866	0.8830	0.9509	0.6601	0.9086	0.7602	0.2284	0.8046	0.3951	0.8299	0.9771	0.5376	0.1586	0.6513	0.5118	0.9965	0.9747	0.3039	0.4286	0.9060
53	0.2998	0.2033	0.9361	0.7179	0.6801	0.7087	0.4107	0.4785	0.0338	0.3944	0.2074	0.3685	0.0932	0.7095	0.1060	0.3527	0.4068	0.0681	0.9573	0.4567
54	0.9995	0.2579	0.1449	0.4519	0.5341	0.5400	0.0305	0.0993	0.3375	0.4858	0.0767	0.3548	0.5135	0.4890	0.2041	0.1236	0.4738	0.6751	0.2973	0.2453
55	0.2875	0.8239	0.9550	0.8685	0.7366	0.4929	0.6508	0.4575	0.4306	0.7530	0.6271	0.2624	0.8766	0.2144	0.7752	0.2664	0.5227	0.3475	0.6454	0.6027
56	0.7744	0.8738	0.6410	0.2766	0.4167	0.7447	0.4421	0.8200	0.0911	0.1918	0.7919	0.3923	0.6995	0.4841	0.8088	0.9671	0.5252	0.7098	0.0773	0.3515
57	0.2190	0.9507	0.7369	0.7069	0.8026	0.5224	0.5936	0.6252	0.2430	0.7295	0.5426	0.8208	0.7099	0.5528	0.9950	0.6529	0.3536	0.8496	0.5964	0.6991
58	0.3572	0.0386	0.0604	0.5086	0.1137	0.2813	0.7213	0.4052	0.6885	0.7022	0.6949	0.9898	0.3532	0.8499	0.7351	0.9008	0.7007	0.2759	0.5137	0.5457
59	0.4203	0.2039	0.6619	0.6296	0.6964	0.5694	0.3744	0.4801	0.6115	0.2319	0.3233	0.4104	0.9883	0.3962	0.6002	0.3421	0.9004	0.1978	0.7164	0.2006
60	0.3852	0.8575	0.3556	0.1719	0.9084	0.1519	0.5746	0.8501	0.7047	0.0968	0.0052	0.2592	0.5568	0.2110	0.4898	0.1143	0.4169	0.8942	0.0465	0.5638
61	0.8188	0.8797	0.2189	0.7505	0.4091	0.0746	0.9380	0.4851	0.6324	0.1161	0.9039	0.5174	0.2005	0.4795	0.9108	0.6239	0.8096	0.4277	0.4493	0.9989
62	0.2222	0.2611	0.8572	0.8338	0.1860	0.5882	0.9201	0.8918	0.8173	0.5117	0.1740	0.6907	0.6259	0.4125	0.1228	0.3093	0.4588	0.6900	0.4297	0.5706
63	0.8915	0.0972	0.4237	0.7628	0.9373	0.3372	0.5366	0.7375	0.7250	0.0505	0.7794	0.6088	0.5326	0.9316	0.4153	0.0761	0.3446	0.2628	0.1542	0.2263
64	0.3538	0.2774	0.2357	0.0924	0.9106	0.6775	0.7431	0.0363	0.2660	0.8256	0.0942	0.1207	0.3958	0.7775	0.7103	0.8784	0.9515	0.5645	0.5844	0.7385
65	0.2530	0.2402	0.0294	0.2248	0.5812	0.6073	0.1290	0.2662	0.4448	0.5572	0.5474	0.1756	0.9499	0.2062	0.0147	0.3122	0.5998	0.7324	0.2100	0.8565
66	0.4071	0.4842	0.8629	0.1376	0.5034	0.6827	0.1170	0.6243	0.3775	0.7851	0.8008	0.8080	0.6733	0.0530	0.1037	0.6648	0.7386	0.4086	0.2452	0.6205
67	0.8345	0.4357	0.3540	0.2538	0.3255	0.7046	0.6524	0.0954	0.6137	0.6245	0.2461	0.8730	0.1787	0.0879	0.7318	0.8092	0.2877	0.4237	0.4243	0.2361
68	0.5757	0.2145	0.9082	0.7564	0.0278	0.4141	0.7820	0.7118	0.0021	0.3626	0.9811	0.1441	0.1006	0.9171	0.5045	0.6001	0.0550	0.8949	0.4336	0.6302
69	0.4771	0.4272	0.5959	0.4767	0.4256	0.4142	0.1177	0.8357	0.5324	0.3672	0.6739	0.9933	0.8620	0.5986	0.7340	0.5626	0.2166	0.6138	0.8030	0.6250
70	0.8720	0.8696	0.1655	0.5784	0.6499	0.2776	0.9633	0.7313	0.0447	0.4912	0.1945	0.6848	0.6125	0.8523	0.0498	0.2335	0.2610	0.2022	0.3245	0.6773
71	0.1957	0.5619	0.9611	0.4220	0.4593	0.2400	0.7886	0.6671	0.8284	0.1475	0.0199	0.5886	0.4552	0.6989	0.3149	0.7790	0.4545	0.9012	0.6490	0.4696
72	0.1244	0.4777	0.4444	0.5191	0.6314	0.3918	0.9981	0.9052	0.7269	0.2810	0.9942	0.7306	0.4212	0.5659	0.8584	0.7257	0.4090	0.9278	0.6924	0.3486
73	0.9978	0.8888	0.7930	0.9129	0.9218	0.2553	0.8241	0.1813	0.1509	0.8843	0.0379	0.8346	0.6085	0.2032	0.0089	0.5450	0.9699	0.0219	0.7063	0.4879
74	0.3960	0.8718	0.6388	0.9467	0.2216	0.0189	0.2101	0.9448	0.4278	0.2353	0.0805	0.3225	0.9830	0.8017	0.9335	0.7003	0.8691	0.2089	0.5650	0.3410
75	0.9877	0.0702	0.6532	0.4654	0.5212	0.6401	0.2838	0.4423	0.5781	0.9984	0.4619	0.9587	0.5172	0.7647	0.3416	0.0337	0.4862	0.4292	0.3100	0.3415
76	0.4955	0.2659	0.6638	0.9102	0.3825	0.9140	0.3008	0.7999	0.2164	0.4311	0.4059	0.5168	0.0921	0.7023	0.6593	0.3229	0.5294	0.6957	0.1051	0.0567
77	0.5263	0.6958	0.1386	0.0884	0.4542	0.5719	0.7810	0.7703	0.2511	0.4953	0.7763	0.0755	0.3383	0.6351	0.1513	0.6308	0.2755	0.1989	0.7807	0.2183
78	0.5486	0.6437	0.4412	0.8138	0.5802	0.5981	0.1762	0.2104	0.7877	0.0175	0.9384	0.3908	0.1652	0.7665	0.6003	0.9996	0.6376	0.7347	0.7778	0.5507
79	0.7076	0.1880	0.3095	0.5585	0.8156	0.0739	0.7057	0.8670	0.3813	0.3173	0.4867	0.6019	0.0328	0.0626	0.4628	0.9878	0.0402	0.8847	0.0822	0.8101
80	0.2996	0.9323	0.5580	0.5019	0.0231	0.8889	0.9759	0.6771	0.4602	0.2621	0.4524	0.3954	0.7846	0.1081	0.8848	0.1700	0.7082	0.5995	0.5743	0.2742
81	0.2710	0.3076	0.3373	0.2992	0.8715	0.2526	0.0088	0.3975	0.8709	0.4481	0.9014	0.2320	0.7510	0.3706	0.5928	0.2253	0.5360	0.2381	0.3676	0.0840
82	0.9692	0.9672	0.9785	0.8654	0.9020	0.6830	0.6108	0.3183	0.2955	0.3743	0.0428	0.0873	0.7829	0.2392	0.9543	0.4472	0.4743	0.5394	0.5483	0.9001
83	0.6541	0.7676	0.7261	0.7126	0.6880	0.9852	0.6134	0.0025	0.4759	0.3346	0.1689	0.7494	0.5237	0.1856	0.3077	0.8881	0.5305	0.3912	0.0136	0.4163
84	0.8533	0.6540	0.5828	0.1692	0.3374	0.2566	0.2952	0.8002	0.2966	0.4089	0.5827	0.3316	0.7833	0.9040	0.3387	0.6704	0.8880	0.5678	0.8748	0.6090
85	0.8301	0.1315	0.9776	0.5927	0.8122	0.9875	0.4964	0.0407	0.3400	0.4642	0.8935	0.4018	0.3974	0.4161	0.2262	0.8822	0.6363	0.4155	0.6052	0.3456
86	0.0423	0.6645	0.8791	0.8341	0.9551	0.1443	0.8016	0.6368	0.9046	0.6221	0.9622	0.8214	0.7358	0.3577	0.2434	0.8497	0.1173	0.6016	0.1753	0.8440
87	0.2172	0.1965	0.3442	0.2903	0.7435	0.3235	0.7878	0.6357	0.3788	0.4695	0.6551	0.3780	0.6143	0.2373	0.4781	0.8713	0.7105	0.4689	0.7189	0.9925
88	0.7330	0.9692	0.9564	0.7404	0.7400	0.3899	0.9896	0.0909	0.7687	0.9486	0.2625	0.5673	0.5712	0.7159	0.3987	0.3199	0.8638	0.2051	0.9000	0.6872
89	0.3858	0.3398	0.0057	0.1153	0.4865	0.4865	0.5739	0.2207	0.1901	0.7822	0.4425	0.1850	0.8642	0.0210	0.1660	0.6519	0.0111	0.5166	0.7203	0.6872
90	0.4838	0.1272	0.8111	0.1764	0.9468	0.6974	0.0499	0.7532	0.9147	0.9532	0.8854	0.8399	0.2413	0.3961	0.2916	0.6845	0.3062	0.7255	0.9592	0.8488



TABLE 1 Continued

	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
91	0.7322	0.5000	0.3806	0.3644	0.2113	0.3902	0.3978	0.5716	0.9275	0.3701	0.3274	0.1549	0.6609	0.2957	0.3897	0.8493	0.9805	0.5367	0.2187	0.2893
92	0.6281	0.7065	0.7353	0.6941	0.6354	0.9825	0.5583	0.1485	0.5175	0.7491	0.8679	0.3583	0.6290	0.0728	0.5814	0.0207	0.7613	0.1141	0.9822	0.4496
93	0.9029	0.7845	0.6488	0.9231	0.3890	0.7920	0.6035	0.6905	0.2467	0.3502	0.7698	0.1631	0.4603	0.1765	0.6614	0.9610	0.9167	0.3705	0.0689	0.5169
94	0.0821	0.8707	0.0427	0.6764	0.3660	0.4701	0.2753	0.6182	0.2831	0.9774	0.5460	0.7201	0.3131	0.3278	0.1148	0.8172	0.6874	0.3655	0.6128	0.6646
95	0.4830	0.3107	0.3163	0.4432	0.6718	0.4512	0.9210	0.6277	0.0682	0.5370	0.5798	0.2563	0.5239	0.5027	0.4548	0.7970	0.3590	0.5630	0.7479	0.6347
96	0.6786	0.1128	0.5480	0.3401	0.4451	0.3585	0.5770	0.4395	0.5824	0.9836	0.8334	0.4663	0.6616	0.9268	0.5579	0.0926	0.0293	0.6083	0.9650	0.0541
97	0.6769	0.8477	0.3126	0.2555	0.9176	0.6926	0.9884	0.2306	0.9346	0.0369	0.1111	0.2237	0.9546	0.0575	0.0484	0.1727	0.5119	0.8415	0.4644	0.4814
98	0.4917	0.8389	0.2963	0.3342	0.0104	0.9694	0.0114	0.7720	0.4202	0.5999	0.3430	0.1948	0.6342	0.8798	0.0546	0.8874	0.5235	0.7297	0.2836	0.0108
99	0.2803	0.7395	0.7598	0.2525	0.9576	0.6006	0.8924	0.9266	0.2355	0.0678	0.4488	0.6047	0.6285	0.4056	0.6912	0.5750	0.2366	0.5670	0.3244	0.8838
100	0.2289	0.7760	0.0180	0.7002	0.0806	0.6596	0.8104	0.2837	0.4968	0.0441	0.8907	0.4066	0.5966	0.7723	0.1822	0.4840	0.0001	0.4821	0.6144	0.9916
1	0.6241	0.5620	0.8967	0.2393	0.1313	0.7516	0.4120	0.1889	0.4108	0.5931	0.5101	0.8903	0.1026	0.3314	0.8313	0.8547	0.9217	0.5666	0.2055	0.0487
2	0.7770	0.6555	0.8809	0.9477	0.3306	0.8645	0.5092	0.1140	0.2752	0.1763	0.0510	0.6348	0.9841	0.0744	0.4198	0.0671	0.0671	0.0638	0.4731	0.9756
3	0.1256	0.9330	0.8461	0.5600	0.7219	0.9886	0.0515	0.5002	0.2026	0.9134	0.5339	0.3625	0.9410	0.2415	0.9188	0.0934	0.7169	0.9784	0.1913	0.6113
4	0.2001	0.0168	0.4084	0.6396	0.5396	0.3703	0.0153	0.1076	0.5046	0.9615	0.7059	0.0332	0.4614	0.2503	0.6618	0.4864	0.3054	0.2331	0.6590	0.9540
5	0.6194	0.5231	0.8763	0.0896	0.5088	0.6552	0.4417	0.0252	0.3682	0.1571	0.4790	0.0357	0.9874	0.0935	0.4259	0.5685	0.9026	0.0185	0.1264	0.5204
6	0.4537	0.3208	0.8825	0.7640	0.1460	0.4595	0.6012	0.5681	0.6316	0.0888	0.1864	0.5793	0.3182	0.4114	0.9882	0.8668	0.5764	0.4162	0.4329	0.2436
7	0.0017	0.5124	0.1447	0.4324	0.6127	0.3336	0.5544	0.0373	0.9249	0.0125	0.1712	0.9634	0.4449	0.5555	0.5550	0.1847	0.8011	0.6711	0.1049	0.3462
8	0.9328	0.7671	0.5749	0.3609	0.5834	0.7964	0.5152	0.5946	0.0271	0.9496	0.3998	0.6109	0.3721	0.1160	0.2185	0.9668	0.1005	0.9510	0.4254	0.4255
9	0.5734	0.7044	0.2420	0.6578	0.7116	0.3846	0.9815	0.3230	0.1845	0.5134	0.7160	0.4376	0.1000	0.2318	0.8568	0.3931	0.1139	0.7170	0.5676	0.2293
10	0.4251	0.1241	0.7815	0.5811	0.2194	0.0029	0.2244	0.5735	0.0069	0.3160	0.4138	0.0042	0.3606	0.1134	0.8364	0.7706	0.7254	0.0205	0.9559	0.4121
11	0.7777	0.8436	0.3089	0.1811	0.5647	0.6039	0.1424	0.4987	0.0313	0.1516	0.4257	0.7975	0.8742	0.8831	0.5036	0.0064	0.9043	0.5371	0.0436	0.4971
12	0.7767	0.9856	0.4242	0.0720	0.7543	0.2348	0.4010	0.3357	0.9751	0.8938	0.3996	0.7052	0.6512	0.8328	0.9151	0.4869	0.0385	0.8826	0.1612	0.6730
13	0.6817	0.5554	0.8789	0.6046	0.7187	0.3634	0.9842	0.9116	0.4661	0.9184	0.4426	0.4465	0.9304	0.9758	0.0982	0.6049	0.0272	0.6515	0.0835	0.1568
14	0.1106	0.4667	0.0471	0.0458	0.9056	0.4241	0.1967	0.1931	0.9560	0.8795	0.0041	0.5687	0.1329	0.8589	0.7104	0.2275	0.8444	0.2773	0.2015	0.6679
15	0.3580	0.7102	0.8418	0.0298	0.0072	0.5243	0.8912	0.1723	0.0333	0.8752	0.9302	0.8028	0.2132	0.0786	0.8649	0.5691	0.0556	0.9808	0.1479	0.1993
16	0.5762	0.3295	0.5153	0.6992	0.0852	0.0351	0.6825	0.3977	0.1996	0.3528	0.6170	0.5099	0.5029	0.9063	0.0953	0.4194	0.6506	0.1484	0.3120	0.7405
17	0.5443	0.8463	0.9125	0.0578	0.3080	0.5991	0.1658	0.4369	0.1070	0.2993	0.4304	0.0241	0.5088	0.1935	0.3740	0.5160	0.2569	0.4583	0.0283	0.0711
18	0.4501	0.9981	0.3068	0.1487	0.6579	0.3943	0.0347	0.4883	0.9451	0.5909	0.3574	0.1683	0.9542	0.0611	0.9619	0.9670	0.4310	0.4978	0.2682	0.0164
19	0.8255	0.9492	0.5085	0.7982	0.2781	0.1110	0.6564	0.6864	0.1690	0.8727	0.9429	0.5225	0.6550	0.4824	0.7631	0.1853	0.7981	0.4436	0.8950	0.1425
20	0.9142	0.8963	0.4149	0.9715	0.8828	0.2816	0.8238	0.6546	0.4620	0.4632	0.7054	0.6567	0.8302	0.9768	0.7844	0.0387	0.0512	0.2209	0.9175	0.4092
21	0.8811	0.0026	0.5075	0.3850	0.5578	0.7396	0.4381	0.1039	0.8732	0.5146	0.8623	0.9991	0.7247	0.4652	0.7382	0.7522	0.9962	0.8900	0.5240	0.9023
22	0.5300	0.4331	0.8525	0.8254	0.2097	0.3422	0.8102	0.2562	0.5845	0.3717	0.5529	0.2560	0.0172	0.0614	0.1252	0.4516	0.5856	0.7947	0.6169	0.9132
23	0.6382	0.1454	0.1591	0.5337	0.3143	0.4000	0.3466	0.1657	0.9069	0.4063	0.1078	0.0416	0.5774	0.7989	0.1220	0.9423	0.1182	0.6628	0.9669	0.8641
24	0.8585	0.3381	0.5428	0.7525	0.0468	0.3404	0.9872	0.4592	0.6155	0.3594	0.6412	0.1397	0.5039	0.5842	0.2690	0.5076	0.1585	0.1716	0.2071	0.1211
25	0.8292	0.8901	0.1024	0.6306	0.4055	0.1991	0.5953	0.5295	0.6953	0.1914	0.5640	0.1681	0.0527	0.4813	0.1602	0.9990	0.7997	0.8800	0.3344	0.7737
26	0.9097	0.2235	0.6171	0.5472	0.3870	0.7132	0.9920	0.8926	0.2716	0.2646	0.4600	0.6497	0.2261	0.9223	0.6416	0.1045	0.7114	0.5038	0.0362	0.9022
27	0.7294	0.3750	0.7925	0.4394	0.7266	0.5969	0.7857	0.3984	0.1059	0.9403	0.1552	0.4755	0.6021	0.8833	0.9213	0.8157	0.6440	0.9926	0.7995	0.8894
28	0.0691	0.5247	0.9921	0.5766	0.9260	0.4886	0.9772	0.6218	0.9497	0.3450	0.8443	0.6936	0.0038	0.4511	0.8995	0.9621	0.1894	0.6603	0.9388	0.7875
29	0.2930	0.1310	0.7471	0.4122	0.5012	0.1411	0.3691	0.0523	0.0232	0.9454	0.2850	0.4874	0.9011	0.0580	0.3588	0.9204	0.8818	0.6043	0.8414	0.5116
30	0.3499	0.6659	0.8659	0.9802	0.6394	0.0221	0.7131	0.5363	0.4316	0.1157	0.7702	0.6702	0.6702	0.5980	0.5669	0.2468	0.8132	0.4295	0.2862	0.2598
31	0.2043	0.7977	0.3688	0.7445	0.0991	0.1632	0.6467	0.1724	0.4238	0.9416	0.0723	0.5559	0.0756	0.3188	0.0869	0.5464	0.0627	0.3391	0.6187	0.8594
32	0.1023	0.8140	0.8005	0.6897	0.3145	0.9010	0.7793	0.2775	0.0412	0.5232	0.5461	0.6685	0.2020	0.0435	0.3869	0.3965	0.4302	0.6913	0.7692	0.1147
33	0.9315	0.2394	0.4413	0.2407	0.2206	0.7666	0.0777	0.0983	0.8073	0.7799	0.7901	0.4828	0.9013	0.9226	0.8250	0.9236	0.8574	0.3828	0.7239	0.4064
34	0.2076	0.1672	0.0735	0.9041	0.5521	0.1067	0.0239	0.6238	0.4904	0.1468	0.6020	0.2706	0.5260	0.9900	0.6403	0.8103	0.9021	0.2308	0.0985	0.4641
35	0.4825	0.8486	0.7469	0.1434	0.3003	0.0625	0.5851	0.4994	0.7390	0.8792	0.2588	0.5892	0.5582	0.0443	0.5349	0.8969	0.1553	0.9956	0.1403	0.9575
36	0.4736	0.1278	0.6806	0.6409	0.8467	0.0308	0.7816	0.2360	0.1953	0.2035	0.3067	0.2518	0.9718	0.2544	0.6367	0.3001	0.1900	0.7610	0.2722	0.4670
37	0.1769	0.6168	0.5320	0.4772	0.9284	0.3261	0.5359	0.4576	0.5558	0.1828	0.3129	0.0316	0.4796	0.2794	0.5303	0.1069	0.7656	0.6695	0.4386	0.9535
38	0.7001	0.0559	0.1097	0.7597	0.1014	0.2111	0.2170	0.0688	0.8971	0.0851	0.9796	0.1839	0.0610	0.0297	0.7143	0.2131	0.9274	0.0075	0.6950	0.6615



TABLE 1 Continued

39	0.2929	0.8349	0.6141	0.6470	0.0176	0.5190	0.8318	0.6821	0.8511	0.2205	0.5112	0.6260	0.8851	0.2447	0.8724	0.3288	0.8671	0.1073	0.1566	0.1977
40	0.8740	0.2481	0.6152	0.7588	0.6446	0.7951	0.3447	0.8050	0.2307	0.8754	0.0528	0.4392	0.9295	0.1541	0.7541	0.0623	0.7772	0.5147	0.4067	0.7802
41	0.3638	0.6165	0.9809	0.4379	0.8358	0.3851	0.7983	0.9259	0.1299	0.1761	0.6761	0.3916	0.8199	0.0277	0.3749	0.6234	0.0842	0.8335	0.3377	0.9985
42	0.0536	0.4729	0.3012	0.9955	0.0269	0.4328	0.8882	0.8097	0.9682	0.3263	0.6731	0.0916	0.6617	0.9068	0.1685	0.3464	0.3139	0.7421	0.9632	0.9647
43	0.2488	0.1499	0.6338	0.5407	0.9661	0.6779	0.5656	0.5059	0.7644	0.8625	0.6434	0.8657	0.7457	0.9966	0.2804	0.6631	0.3016	0.8355	0.6374	0.1287
44	0.1707	0.4783	0.5163	0.2154	0.5310	0.7690	0.1048	0.9055	0.2958	0.5173	0.6502	0.2672	0.7078	0.2520	0.6220	0.5573	0.4945	0.0958	0.7004	0.6653
45	0.8398	0.5481	0.3649	0.3971	0.4682	0.7980	0.8125	0.3168	0.5060	0.5055	0.6381	0.1824	0.4651	0.5536	0.3151	0.9494	0.3505	0.4025	0.4061	0.8490
46	0.2210	0.7754	0.0495	0.0107	0.4035	0.2931	0.3125	0.5299	0.6450	0.3021	0.0606	0.7967	0.1214	0.1922	0.3294	0.2136	0.7402	0.1941	0.2460	0.8190
47	0.9698	0.1744	0.5142	0.1706	0.7145	0.2905	0.5422	0.4456	0.1943	0.4290	0.1074	0.8796	0.8939	0.6094	0.7284	0.5889	0.8119	0.6010	0.0997	0.3872
48	0.9256	0.9452	0.9131	0.5765	0.6762	0.9437	0.6337	0.8478	0.0039	0.8325	0.8693	0.0388	0.9677	0.3201	0.6477	0.0561	0.5064	0.8369	0.9616	0.4859
49	0.2211	0.5590	0.0464	0.7912	0.0750	0.6911	0.8006	0.3037	0.3461	0.3568	0.5290	0.5880	0.2991	0.4940	0.2181	0.0397	0.3169	0.1905	0.5800	0.2715
50	0.7490	0.5469	0.9461	0.4012	0.3184	0.5948	0.9577	0.6584	0.5960	0.8957	0.2265	0.6415	0.7683	0.6321	0.6745	0.7571	0.9325	0.4585	0.2329	0.1203
51	0.3196	0.7740	0.1075	0.9863	0.7113	0.4188	0.9415	0.8875	0.0889	0.8432	0.0110	0.7695	0.2047	0.0590	0.9395	0.0070	0.3704	0.8183	0.1899	0.7746
52	0.8491	0.0099	0.9379	0.4718	0.4126	0.5452	0.6331	0.2309	0.9432	0.7523	0.2127	0.0130	0.7285	0.4553	0.9211	0.0616	0.4285	0.1423	0.3200	0.3029
53	0.8004	0.5958	0.5149	0.2202	0.6624	0.0672	0.7263	0.0633	0.5433	0.5444	0.7273	0.6389	0.5680	0.4792	0.7473	0.7388	0.8806	0.7946	0.2971	0.5726
54	0.0762	0.1426	0.0077	0.8317	0.7732	0.0151	0.1167	0.0036	0.7172	0.9775	0.3022	0.5264	0.9473	0.2847	0.1952	0.7127	0.8108	0.8059	0.4393	0.7526
55	0.7991	0.7796	0.1445	0.1399	0.7716	0.0060	0.3769	0.7432	0.8590	0.0967	0.5005	0.8526	0.9861	0.5424	0.4074	0.7152	0.6822	0.2640	0.8546	0.8307
56	0.9853	0.4103	0.2542	0.0276	0.0874	0.0033	0.0361	0.6395	0.0857	0.8571	0.7193	0.7568	0.6075	0.0587	0.7604	0.5338	0.6797	0.6662	0.0133	0.9221
57	0.1890	0.4965	0.9684	0.9779	0.8339	0.7271	0.5760	0.8453	0.4095	0.6112	0.1267	0.1694	0.9444	0.5833	0.3069	0.6640	0.7298	0.2564	0.0105	0.1172
58	0.1232	0.3854	0.5222	0.4837	0.8243	0.3301	0.6587	0.0812	0.4901	0.4554	0.4129	0.4129	0.4846	0.7979	0.5229	0.6028	0.2550	0.2135	0.1063	0.7645
59	0.1491	0.0832	0.0980	0.3412	0.0679	0.1406	0.2909	0.2650	0.9417	0.5462	0.4559	0.2834	0.2589	0.8694	0.1772	0.5183	0.6460	0.7314	0.3242	0.8356
60	0.7776	0.3507	0.1470	0.9352	0.3405	0.4829	0.0500	0.7668	0.3004	0.5952	0.6219	0.3613	0.8057	0.4606	0.6836	0.9050	0.1593	0.7855	0.4158	0.2784
61	0.7049	0.9291	0.3586	0.5425	0.1535	0.0951	0.7448	0.0543	0.4673	0.7539	0.9248	0.1221	0.1892	0.2384	0.3473	0.6494	0.9422	0.9798	0.9569	0.0508
62	0.9704	0.2697	0.0661	0.1118	0.4378	0.7897	0.4882	0.2304	0.2584	0.3241	0.3992	0.0801	0.6353	0.2408	0.5274	0.8018	0.8612	0.1969	0.1829	0.2469
63	0.1647	0.2046	0.4727	0.8536	0.3956	0.8993	0.8343	0.4933	0.3219	0.0881	0.3937	0.2901	0.1695	0.7144	0.1809	0.5894	0.1776	0.3471	0.9648	0.5815
64	0.1002	0.6240	0.1902	0.6242	0.8483	0.5873	0.1640	0.0285	0.9867	0.7227	0.5018	0.0475	0.5277	0.3824	0.0651	0.9820	0.0925	0.6472	0.9657	0.8233
65	0.6728	0.7251	0.5023	0.0965	0.3738	0.3673	0.2432	0.6326	0.1525	0.3904	0.1550	0.0807	0.5277	0.4187	0.6223	0.9625	0.5709	0.0564	0.7736	0.4653
66	0.6542	0.5412	0.5661	0.2811	0.7111	0.7328	0.3106	0.8759	0.2354	0.6548	0.4320	0.7231	0.1001	0.2272	0.0002	0.4468	0.5617	0.0138	0.3929	0.5803
67	0.3519	0.7415	0.6461	0.1920	0.5761	0.6776	0.0902	0.6081	0.9190	0.8170	0.4222	0.9038	0.5703	0.8864	0.7153	0.1788	0.0323	0.9146	0.3292	0.7913
68	0.7341	0.2767	0.4776	0.5138	0.7416	0.4096	0.9529	0.3477	0.0451	0.0148	0.9170	0.4846	0.7811	0.8855	0.0648	0.0724	0.3920	0.9549	0.8970	0.6528
69	0.6339	0.1808	0.3772	0.8653	0.3735	0.1135	0.5148	0.6297	0.2879	0.4204	0.9948	0.3608	0.1866	0.9207	0.8154	0.6623	0.9583	0.1448	0.2857	0.6162
70	0.8857	0.7872	0.5530	0.7504	0.1213	0.0971	0.5438	0.9554	0.1015	0.9598	0.4319	0.8134	0.5162	0.6660	0.4173	0.8588	0.1326	0.2034	0.2371	0.8803
71	0.2010	0.2843	0.1459	0.2673	0.9414	0.4358	0.8839	0.8123	0.8860	0.5001	0.2581	0.2294	0.0422	0.1958	0.5947	0.1144	0.3435	0.6356	0.7158	0.1249
72	0.0469	0.8146	0.6536	0.2601	0.5201	0.0032	0.6627	0.6414	0.3218	0.0022	0.6197	0.9725	0.5489	0.7657	0.4831	0.3321	0.0624	0.2884	0.3812	0.7139
73	0.4042	0.8678	0.7070	0.9251	0.8959	0.0410	0.3765	0.0668	0.0612	0.5938	0.0605	0.2726	0.1636	0.4192	0.3116	0.6896	0.5216	0.7749	0.4844	0.0375
74	0.4216	0.3957	0.8762	0.6635	0.1725	0.0370	0.7154	0.9888	0.1615	0.7039	0.1974	0.7954	0.5924	0.5399	0.7031	0.0383	0.1419	0.7529	0.8145	0.4852
75	0.6315	0.5140	0.4623	0.1358	0.0613	0.8686	0.4764	0.8149	0.5838	0.1307	0.7546	0.9390	0.2128	0.4215	0.6442	0.4453	0.2480	0.0085	0.9165	0.1564
76	0.8739	0.7226	0.2241	0.0731	0.1714	0.8421	0.1317	0.9829	0.4589	0.6595	0.0091	0.8069	0.0474	0.2756	0.3170	0.3733	0.2506	0.9478	0.5413	0.4419
77	0.0808	0.5968	0.5775	0.6034	0.0053	0.4798	0.5317	0.9589	0.2456	0.0722	0.4577	0.3791	0.2751	0.4411	0.2718	0.4861	0.9970	0.8324	0.7074	0.0211
78	0.6033	0.8213	0.8330	0.7014	0.8209	0.6222	0.0800	0.4645	0.1502	0.2785	0.3524	0.1691	0.5288	0.1600	0.7422	0.7230	0.9405	0.7935	0.9663	0.4370
79	0.7739	0.4300	0.4300	0.7780	0.2067	0.2892	0.9913	0.6023	0.5420	0.7837	0.2334	0.3530	0.0086	0.4225	0.7636	0.8985	0.1034	0.1318	0.6649	0.0345
80	0.6042	0.1976	0.1381	0.7528	0.1080	0.6237	0.2246	0.8347	0.9786	0.9186	0.8859	0.9804	0.7274	0.6582	0.5875	0.8750	0.8105	0.4681	0.4047	0.6712
81	0.9076	0.1726	0.6778	0.9028	0.2864	0.1797	0.9907	0.3656	0.9401	0.1625	0.0876	0.3033	0.9376	0.7910	0.5073	0.0615	0.1481	0.3010	0.3287	0.6622
82	0.1420	0.9655	0.9051	0.0109	0.7403	0.8470	0.2316	0.2516	0.4536	0.5275	0.5615	0.0992	0.2799	0.4931	0.6688	0.7755	0.1464	0.2008	0.0190	0.8072
83	0.4856	0.9320	0.3883	0.0962	0.6482	0.4351	0.9763	0.3668	0.0292	0.7824	0.1082	0.8681	0.0922	0.1800	0.6849	0.7436	0.6743	0.8298	0.8186	0.9940
84	0.4966	0.6986	0.9465	0.4799	0.4835	0.9922	0.1466	0.5807	0.9518	0.6201	0.6014	0.9605	0.5705	0.6852	0.7272	0.6857	0.5763	0.4884	0.5809	0.7596
85	0.9425	0.5246	0.6741	0.4873	0.6343	0.7138	0.4458	0.2418	0.3327	0.7026	0.2883	0.0833	0.6501	0.6236	0.3760	0.6200	0.2258	0.6111	0.2674	0.9914
86	0.9150	0.5628	0.6557	0.3711	0.7156	0.2687	0.4474	0.6568	0.2347	0.8722	0.3339	0.4030	0.9453	0.5858	0.4800	0.0174	0.8082	0.5725	0.4609	0.4809



TABLE 1 Continued

87	0.3827	0.4745	0.5025	0.3804	0.2765	0.6687	0.5435	0.6117	0.7672	0.0417	0.4647	0.6854	0.6883	0.9292	0.0340	0.9377	0.6215	0.6484	0.7670	0.6312
88	0.9572	0.9972	0.2042	0.4309	0.8524	0.6973	0.5883	0.8312	0.8051	0.7350	0.1956	0.1346	0.9912	0.3457	0.8853	0.1254	0.4210	0.0712	0.6136	0.7194
89	0.5477	0.5850	0.3821	0.7738	0.0454	0.1255	0.9891	0.9810	0.4145	0.7697	0.9250	0.2881	0.0978	0.0193	0.5061	0.6678	0.7943	0.7850	0.8417	0.9064
90	0.4335	0.6683	0.2899	0.5610	0.4415	0.4749	0.1101	0.1151	0.2595	0.8846	0.8952	0.9270	0.3193	0.5219	0.1166	0.4892	0.9418	0.1693	0.8940	0.9860
91	0.2424	0.8025	0.8767	0.8424	0.7387	0.3562	0.4036	0.2439	0.1582	0.0101	0.5577	0.3408	0.5409	0.3714	0.8469	0.2018	0.8761	0.4487	0.9628	0.7010
92	0.9120	0.2259	0.9873	0.5390	0.5414	0.8712	0.4954	0.4462	0.3911	0.0516	0.9313	0.5992	0.2618	0.7204	0.9197	0.4704	0.9868	0.3667	0.6856	0.3303
93	0.5419	0.9090	0.9697	0.0194	0.8676	0.3159	0.2297	0.7898	0.7183	0.0389	0.9637	0.2473	0.4305	0.2649	0.3017	0.9439	0.2056	0.7349	0.5574	0.1588
94	0.7475	0.2037	0.6149	0.8187	0.9626	0.6465	0.5077	0.3419	0.9826	0.6268	0.7033	0.1231	0.5329	0.5008	0.7267	0.5871	0.3564	0.6202	0.6404	0.8293
95	0.1518	0.6692	0.1799	0.9365	0.7651	0.0431	0.5713	0.2873	0.1705	0.2003	0.8774	0.9659	0.8902	0.4282	0.0858	0.1064	0.4303	0.3296	0.1159	0.7548
96	0.8211	0.4615	0.6967	0.4218	0.7891	0.6664	0.4888	0.3311	0.7338	0.0112	0.5982	0.4080	0.2734	0.4299	0.3799	0.9115	0.0940	0.9263	0.8555	0.6086
97	0.3689	0.5758	0.4477	0.1649	0.3777	0.2162	0.6487	0.2195	0.2212	0.7625	0.4380	0.6701	0.1997	0.3756	0.2492	0.2827	0.7917	0.3365	0.6799	0.3952
98	0.6291	0.6264	0.6167	0.9122	0.0317	0.0707	0.8626	0.0106	0.5932	0.3939	0.6788	0.5447	0.0490	0.0257	0.4014	0.9370	0.9253	0.5364	0.5900	0.9166
99	0.4221	0.3047	0.7181	0.5967	0.8107	0.6780	0.6224	0.0794	0.0675	0.7489	0.6203	0.0999	0.6959	0.7804	0.4469	0.7216	0.6509	0.2315	0.3110	0.1208
100	0.7764	0.9901	0.2808	0.8607	0.6284	0.6816	0.9721	0.2196	0.6521	0.9680	0.8294	0.8285	0.5534	0.9986	0.6366	0.0665	0.5179	0.1981	0.6503	0.7904
1	0.3550	0.2871	0.3504	0.1052	0.5794	0.1281	0.4433	0.9174	0.9816	0.4325	0.7100	0.3351	0.2986	0.9081	0.3848	0.7218	0.6886	0.0899	0.5945	0.8222
2	0.1458	0.9100	0.3684	0.7696	0.8991	0.2218	0.8438	0.1966	0.4368	0.5171	0.4979	0.8837	0.1025	0.5848	0.0229	0.9111	0.1911	0.3966	0.1555	0.4885
3	0.6820	0.1476	0.8785	0.4454	0.2886	0.3406	0.2058	0.9191	0.6140	0.8978	0.2878	0.2277	0.2224	0.4637	0.1633	0.1028	0.8385	0.6943	0.2499	0.9463
4	0.7531	0.2924	0.8592	0.6026	0.0273	0.7544	0.1253	0.1674	0.9536	0.1781	0.2575	0.6426	0.1951	0.1791	0.1666	0.8788	0.6093	0.3482	0.4510	0.3900
5	0.1855	0.7847	0.7819	0.5427	0.5214	0.1670	0.6966	0.7068	0.4631	0.0602	0.7316	0.9469	0.2657	0.9327	0.9027	0.0531	0.4520	0.9865	0.4283	0.9049
6	0.5236	0.2552	0.9932	0.1260	0.3875	0.8071	0.2359	0.6517	0.5956	0.2155	0.7461	0.8117	0.9521	0.6709	0.9305	0.8600	0.4099	0.2012	0.7615	0.3470
7	0.9801	0.5106	0.6602	0.3105	0.4705	0.4043	0.4805	0.0095	0.9355	0.0218	0.5655	0.3078	0.4972	0.3880	0.8531	0.7497	0.5552	0.9835	0.8315	0.5423
8	0.0226	0.5786	0.0714	0.9317	0.4572	0.8464	0.2746	0.1099	0.9285	0.4710	0.5145	0.9301	0.1291	0.2444	0.6263	0.2198	0.1306	0.0043	0.5599	0.1234
9	0.6300	0.5571	0.4721	0.4751	0.8454	0.8646	0.9130	0.5218	0.6349	0.7567	0.7673	0.0666	0.1743	0.7373	0.6887	0.8660	0.9036	0.1885	0.6844	0.2760
10	0.2778	0.7474	0.7398	0.5853	0.7061	0.7871	0.1592	0.5635	0.4630	0.4009	0.0230	0.9362	0.1223	0.2475	0.7331	0.5671	0.5810	0.6921	0.9934	0.7083
11	0.3779	0.3140	0.2586	0.8275	0.6871	0.8690	0.7974	0.3891	0.8538	0.0705	0.0456	0.8286	0.3767	0.7441	0.2250	0.1984	0.8065	0.6463	0.8519	0.1798
12	0.5893	0.6279	0.9015	0.2900	0.0093	0.3919	0.5143	0.0028	0.2623	0.8530	0.3642	0.6036	0.3810	0.6132	0.0121	0.3065	0.8755	0.7592	0.4088	0.7084
13	0.0719	0.7109	0.4389	0.1939	0.9839	0.4273	0.1225	0.7990	0.0740	0.7836	0.8561	0.8340	0.9754	0.4757	0.9880	0.1068	0.1171	0.2125	0.0742	0.1304
14	0.6118	0.8120	0.5312	0.2437	0.9927	0.3491	0.3246	0.0156	0.2349	0.6305	0.9244	0.3489	0.1771	0.4502	0.7090	0.5344	0.0979	0.5546	0.8090	0.2249
15	0.6196	0.7540	0.4535	0.3510	0.0836	0.6191	0.7220	0.3324	0.7950	0.5836	0.1091	0.5910	0.1834	0.6999	0.2070	0.0134	0.3157	0.5378	0.7538	0.3260
16	0.4907	0.3210	0.6009	0.7034	0.6212	0.6292	0.5584	0.6273	0.8405	0.2688	0.0394	0.2691	0.2527	0.3107	0.7952	0.2398	0.3964	0.1573	0.4003	0.4143
17	0.6398	0.0809	0.0880	0.2913	0.0780	0.1402	0.3392	0.2443	0.7801	0.1770	0.5321	0.8988	0.6024	0.6132	0.0121	0.3065	0.5855	0.9054	0.3382	0.8236
18	0.4737	0.9336	0.9674	0.3103	0.0296	0.2367	0.4133	0.2641	0.4855	0.1199	0.8930	0.6378	0.1450	0.5740	0.6994	0.0390	0.8379	0.3463	0.7484	0.8434
19	0.2416	0.7051	0.3993	0.8968	0.7762	0.0763	0.5787	0.6722	0.4562	0.4565	0.7942	0.7978	0.9483	0.7355	0.1987	0.2336	0.1830	0.6299	0.8764	0.1739
20	0.6839	0.1355	0.4408	0.4031	0.0044	0.4429	0.2546	0.4312	0.8683	0.5197	0.2513	0.6997	0.4414	0.8201	0.2696	0.0834	0.5386	0.1567	0.3635	0.9968
21	0.6124	0.6818	0.4687	0.7823	0.8674	0.3664	0.9654	0.0595	0.0894	0.2787	0.0160	0.2933	0.3474	0.4612	0.8049	0.4197	0.3788	0.1271	0.5015	0.4947
22	0.8899	0.7391	0.5736	0.1033	0.4943	0.6720	0.8245	0.0945	0.2271	0.5182	0.1818	0.1737	0.3658	0.1606	0.1671	0.5797	0.5451	0.9530	0.4597	0.5518
23	0.0183	0.6341	0.3492	0.7233	0.3932	0.7916	0.7411	0.3702	0.6632	0.4323	0.0243	0.3563	0.9118	0.8291	0.3177	0.5651	0.8850	0.6781	0.9138	0.9299
24	0.1105	0.2890	0.5017	0.8121	0.4459	0.0583	0.1778	0.7289	0.4988	0.6005	0.7958	0.1506	0.0473	0.5564	0.3171	0.8644	0.5287	0.6077	0.0261	0.1792
25	0.9271	0.7496	0.7184	0.7136	0.9481	0.5255	0.3329	0.8981	0.2989	0.1041	0.8977	0.4087	0.0024	0.2675	0.5570	0.0898	0.3941	0.6495	0.4274	0.4073
26	0.7012	0.2121	0.9348	0.8027	0.0841	0.0404	0.0781	0.5253	0.5181	0.2123	0.6554	0.2238	0.0179	0.1032	0.5751	0.2629	0.0360	0.7705	0.3678	0.8821
27	0.4132	0.2925	0.7122	0.9133	0.9690	0.7124	0.6832	0.9789	0.6583	0.3940	0.6392	0.6269	0.0827	0.2967	0.6091	0.5907	0.1328	0.8265	0.5997	0.9267
28	0.0562	0.9117	0.6282	0.6129	0.5895	0.1031	0.6626	0.7356	0.7792	0.9205	0.8636	0.9420	0.1298	0.3751	0.0819	0.5852	0.2129	0.6851	0.8224	0.9639
29	0.7953	0.2037	0.9303	0.1237	0.4914	0.2599	0.9656	0.5289	0.9136	0.5556	0.3046	0.0548	0.0015	0.0796	0.4209	0.5010	0.8887	0.9851	0.7809	0.5256
30	0.1455	0.7945	0.1146	0.8535	0.6459	0.0223	0.3661	0.7630	0.2739	0.5517	0.9324	0.7595	0.8143	0.1986	0.1998	0.5957	0.9357	0.6031	0.4826	0.6372
31	0.2024	0.0503	0.4365	0.6303	0.3024	0.2609	0.1747	0.3537	0.9257	0.5506	0.4083	0.1387	0.3855	0.8962	0.9083	0.3326	0.2764	0.5144	0.5070	0.6960
32	0.0504	0.1846	0.4353	0.8505	0.8237	0.8155	0.8038	0.3146	0.7344	0.0097	0.7902	0.7629	0.6358	0.4635	0.4853	0.1350	0.3360	0.0098	0.5884	0.7639
33	0.9790	0.7583	0.1628	0.5733	0.2704	0.5548	0.6478	0.6765	0.6802	0.5677	0.0009	0.5193	0.2142	0.7536	0.6142	0.6121	0.0600	0.4124	0.6390	0.2073
34	0.7814	0.2825	0.6625	0.9160	0.2152	0.5919	0.7210	0.1915	0.4780	0.7719	0.6257	0.3764	0.5603	0.3611	0.0079	0.3736	0.3805	0.2019	0.8106	0.4887



TABLE 1 Continued

35	0.2709	0.7380	0.4570	0.0208	0.4085	0.3323	0.4769	0.1432	0.5965	0.7735	0.1804	0.8577	0.0321	0.4818	0.9761	0.1269	0.0415	0.6934	0.6226	0.9683
36	0.7582	0.0288	0.8548	0.3905	0.4518	0.1534	0.8639	0.2176	0.0007	0.6525	0.3150	0.7580	0.4471	0.2587	0.8401	0.1524	0.7557	0.9189	0.7130	0.9462
37	0.1678	0.1572	0.5903	0.1594	0.8895	0.8661	0.4989	0.5821	0.9930	0.0513	0.2743	0.1968	0.3578	0.0787	0.7513	0.9732	0.3094	0.9743	0.5047	0.0188
38	0.5915	0.1532	0.9139	0.5482	0.4808	0.3517	0.5634	0.8992	0.2264	0.3969	0.5870	0.0882	0.1645	0.2895	0.5251	0.2795	0.8662	0.7879	0.7729	0.8472
39	0.5062	0.1599	0.0586	0.1982	0.7146	0.4733	0.2060	0.5248	0.9037	0.8079	0.0392	0.6160	0.6993	0.5502	0.0725	0.1814	0.7507	0.5492	0.4868	0.1332
40	0.7800	0.7693	0.8374	0.7161	0.4984	0.2658	0.0455	0.9408	0.1027	0.4265	0.5139	0.7249	0.6598	0.2378	0.1622	0.2311	0.0592	0.9474	0.9245	0.4362
41	0.6571	0.5397	0.9489	0.7748	0.8067	0.9840	0.4461	0.1684	0.7018	0.0653	0.2108	0.9093	0.1930	0.7831	0.4650	0.7446	0.2613	0.7434	0.6810	0.7660
42	0.2103	0.4136	0.3602	0.3124	0.6084	0.6066	0.7779	0.2099	0.1717	0.3310	0.3057	0.7926	0.0483	0.4774	0.4753	0.6334	0.1138	0.0825	0.1300	0.5532
43	0.6380	0.7866	0.7641	0.8336	0.2870	0.8476	0.7085	0.8898	0.6489	0.9522	0.8700	0.8955	0.3991	0.0554	0.1950	0.2889	0.8566	0.1178	0.9035	0.3298
44	0.9438	0.3526	0.8919	0.0838	0.4450	0.6658	0.3240	0.8036	0.1733	0.3570	0.6229	0.8022	0.2880	0.5695	0.4725	0.6379	0.1732	0.5508	0.8012	0.5078
45	0.7502	0.9145	0.8980	0.0290	0.5208	0.3928	0.3397	0.3020	0.8729	0.1412	0.1667	0.6774	0.7895	0.2063	0.5488	0.0569	0.0023	0.0990	0.7575	0.3354
46	0.3484	0.2448	0.5131	0.2920	0.0433	0.2214	0.6272	0.2906	0.5860	0.9404	0.8593	0.3925	0.8179	0.5353	0.8408	0.9885	0.1435	0.8161	0.7854	0.7756
47	0.9306	0.9310	0.0335	0.0329	0.6789	0.7485	0.4836	0.8871	0.3673	0.6443	0.8996	0.2387	0.7576	0.3700	0.7482	0.0140	0.7654	0.9846	0.4573	0.2134
48	0.6719	0.1955	0.1114	0.1016	0.0202	0.4982	0.5416	0.9378	0.3803	0.4508	0.3378	0.5192	0.5863	0.8579	0.9765	0.0760	0.8040	0.7608	0.6131	0.2369
49	0.8695	0.4586	0.9203	0.7384	0.7659	0.1283	0.4464	0.7638	0.2582	0.7972	0.9070	0.7392	0.8396	0.8984	0.8403	0.1103	0.9329	0.2273	0.3516	0.3284
50	0.6805	0.2038	0.9845	0.8913	0.9092	0.7892	0.7685	0.0006	0.3161	0.9199	0.2994	0.3286	0.1414	0.4427	0.1438	0.0248	0.4006	0.0936	0.6333	0.7828
51	0.3972	0.5513	0.7984	0.1394	0.7605	0.5244	0.9219	0.4746	0.1663	0.0425	0.2607	0.3663	0.8191	0.7923	0.4135	0.7858	0.0003	0.9157	0.9182	0.9313
52	0.9354	0.2122	0.8615	0.1462	0.2723	0.2591	0.2287	0.0823	0.0154	0.7423	0.4590	0.3542	0.0492	0.0364	0.5866	0.3279	0.8834	0.3509	0.5637	0.7296
53	0.9716	0.7424	0.7578	0.0619	0.1497	0.7880	0.8044	0.3380	0.7426	0.4551	0.1682	0.6173	0.1577	0.9457	0.5789	0.1240	0.8164	0.8384	0.4489	0.1988
54	0.7577	0.1604	0.1319	0.8569	0.5682	0.5547	0.6650	0.8867	0.1467	0.6418	0.7535	0.4944	0.0581	0.9281	0.2421	0.2204	0.0346	0.4266	0.8410	0.8512
55	0.6824	0.2425	0.1429	0.8043	0.8279	0.1593	0.1020	0.3192	0.7924	0.2217	0.1760	0.8435	0.2941	0.1668	0.0406	0.5867	0.7042	0.8550	0.1238	0.0280
56	0.8510	0.5421	0.3832	0.0560	0.3455	0.5672	0.9881	0.1924	0.4441	0.7986	0.3459	0.7614	0.8578	0.2897	0.1556	0.5388	0.0908	0.9091	0.2096	0.6842
57	0.3640	0.2830	0.6724	0.7464	0.2605	0.6227	0.3500	0.6417	0.4293	0.9349	0.0875	0.4534	0.1079	0.0704	0.5068	0.2615	0.4539	0.7988	0.3098	0.1124
58	0.9121	0.4860	0.9181	0.5158	0.8144	0.5133	0.5595	0.2907	0.3347	0.6431	0.4179	0.9700	0.3206	0.2604	0.0467	0.1430	0.4895	0.7773	0.4666	0.9209
59	0.9152	0.7559	0.9553	0.8137	0.4082	0.1680	0.0573	0.2291	0.7627	0.9350	0.2741	0.0312	0.0542	0.5840	0.6795	0.3027	0.7699	0.3494	0.5132	0.6562
60	0.5020	0.1721	0.4961	0.4616	0.6652	0.8492	0.0514	0.4939	0.7960	0.2167	0.2406	0.7463	0.1410	0.0421	0.7106	0.1463	0.4789	0.2094	0.9123	0.2537
61	0.2763	0.5921	0.9344	0.0303	0.6145	0.6214	0.0766	0.3148	0.9042	0.1500	0.9387	0.7299	0.1200	0.8228	0.0376	0.7818	0.2854	0.8549	0.3497	0.7123
62	0.8876	0.8514	0.2278	0.6890	0.6211	0.0955	0.2567	0.9128	0.7556	0.8204	0.9604	0.5745	0.0659	0.6595	0.3113	0.5069	0.4608	0.8000	0.7642	0.1206
63	0.7853	0.2627	0.5362	0.0368	0.4594	0.4023	0.2608	0.8786	0.3075	0.3158	0.4077	0.8280	0.9552	0.0749	0.6076	0.2247	0.8196	0.6063	0.8688	0.1206
64	0.9339	0.6569	0.3138	0.2352	0.8951	0.2768	0.5690	0.5269	0.0489	0.5759	0.1893	0.7362	0.4744	0.7562	0.4223	0.5710	0.2772	0.7283	0.2197	0.0915
65	0.4969	0.1994	0.1347	0.9087	0.0900	0.5955	0.3573	0.9951	0.2965	0.2705	0.8621	0.0245	0.8151	0.3178	0.0462	0.9767	0.4240	0.3074	0.6248	0.0414
66	0.9196	0.9383	0.2342	0.5122	0.6736	0.8964	0.5089	0.8781	0.7133	0.4843	0.8777	0.8610	0.5854	0.5154	0.6504	0.9172	0.3953	0.2823	0.4528	0.1933
67	0.0139	0.2328	0.8268	0.5223	0.4245	0.6244	0.5642	0.8771	0.6955	0.4541	0.5718	0.9062	0.3822	0.2576	0.2230	0.9156	0.8353	0.3637	0.7572	0.5281
68	0.6479	0.1276	0.2790	0.4322	0.5961	0.1286	0.0325	0.8348	0.6195	0.9807	0.3725	0.3909	0.9109	0.5587	0.6752	0.4200	0.0063	0.3185	0.5030	0.4263
69	0.1259	0.1560	0.1354	0.2770	0.9974	0.8269	0.5007	0.2851	0.3075	0.9959	0.3591	0.9058	0.6846	0.9277	0.9077	0.6621	0.1336	0.9280	0.0302	0.8420
70	0.1316	0.9998	0.1327	0.7420	0.7662	0.5822	0.9308	0.8150	0.2828	0.2109	0.3155	0.7558	0.1884	0.3276	0.9396	0.6175	0.1938	0.1559	0.0225	0.0784
71	0.0883	0.0973	0.3256	0.5625	0.6940	0.7291	0.2606	0.8665	0.6364	0.2514	0.5333	0.7236	0.5437	0.0970	0.5041	0.3367	0.7394	0.2735	0.1910	0.9238
72	0.6249	0.3898	0.3187	0.7701	0.6471	0.1335	0.7021	0.7399	0.0300	0.5879	0.8609	0.1677	0.4253	0.8787	0.1587	0.3031	0.3830	0.8207	0.1247	0.8430
73	0.3549	0.8841	0.6040	0.9645	0.7808	0.5714	0.1489	0.8725	0.6861	0.9988	0.9141	0.8692	0.3718	0.2701	0.9391	0.2428	0.1496	0.7470	0.7982	0.8540
74	0.1098	0.8647	0.2233	0.2852	0.2612	0.4778	0.4773	0.9222	0.2940	0.9500	0.3273	0.9368	0.5395	0.0493	0.5301	0.9495	0.5663	0.0234	0.1543	0.5417
75	0.3481	0.4564	0.0267	0.9687	0.2124	0.5804	0.5285	0.8807	0.0263	0.9993	0.1440	0.6727	0.2188	0.1959	0.3763	0.9667	0.5730	0.9067	0.6847	0.7332
76	0.1844	0.8677	0.5806	0.2372	0.8747	0.5369	0.7563	0.0549	0.4911	0.9180	0.2422	0.5963	0.0282	0.6988	0.7206	0.8532	0.2339	0.4457	0.6481	0.0162
77	0.5048	0.3901	0.0287	0.3631	0.4756	0.3759	0.5499	0.8537	0.2724	0.0155	0.8502	0.8489	0.8010	0.3038	0.7225	0.1471	0.8231	0.4932	0.2946	0.6729
78	0.3778	0.8772	0.0419	0.3819	0.0281	0.9264	0.6881	0.9958	0.5021	0.5334	0.1703	0.6466	0.8624	0.7412	0.8972	0.7412	0.5644	0.4094	0.6606	0.7320
79	0.0987	0.6703	0.6791	0.5095	0.5576	0.8637	0.8909	0.6790	0.8060	0.5228	0.3745	0.5315	0.5591	0.4276	0.0430	0.9493	0.4420	0.3028	0.8816	0.1503
80	0.0166	0.0291	0.8586	0.0637	0.9513	0.8192	0.7649	0.0585	0.3695	0.8442	0.4022	0.7453	0.1165	0.7745	0.0161	0.0603	0.6605	0.9255	0.8322	0.9514
81	0.7028	0.1621	0.2204	0.0048	0.2519	0.4891	0.3808	0.2556	0.5994	0.2583	0.1742	0.1819	0.8508	0.6526	0.2977	0.4151	0.9435	0.8790	0.9003	0.9643
82	0.1879	0.7658	0.6925	0.3582	0.3732	0.1019	0.2493	0.3885	0.4332	0.4992	0.2298	0.0593	0.4677	0.1782	0.2953	0.8866	0.6533	0.0526	0.7315	0.6458



TABLE 1 Continued

83	0.2631	0.0509	0.0963	0.2882	0.5777	0.2730	0.9539	0.5906	0.6869	0.1838	0.9338	0.4131	0.7013	0.1745	0.7976	0.7279	0.5675	0.8634	0.4734	0.4442
84	0.8257	0.6476	0.3792	0.0730	0.6116	0.2048	0.8327	0.1639	0.7025	0.3437	0.1022	0.9545	0.9239	0.9662	0.2736	0.7413	0.1877	0.3766	0.6318	0.3551
85	0.8205	0.2620	0.5250	0.7418	0.2638	0.7302	0.1793	0.4662	0.9381	0.8758	0.8290	0.1086	0.7019	0.5940	0.2509	0.0828	0.5639	0.0886	0.0981	0.4298
86	0.8109	0.9442	0.1833	0.8956	0.6573	0.2849	0.6681	0.6383	0.7325	0.6407	0.5188	0.1452	0.5084	0.5832	0.3513	0.4768	0.5724	0.0311	0.3190	0.8591
87	0.6387	0.5115	0.6990	0.1871	0.5942	0.4172	0.3205	0.3308	0.6044	0.4571	0.6879	0.3541	0.4561	0.6634	0.6629	0.9983	0.0476	0.7712	0.8611	0.3353
88	0.2815	0.7959	0.9711	0.8503	0.1163	0.1673	0.0994	0.4877	0.0737	0.5245	0.1921	0.1179	0.0944	0.3719	0.1863	0.5987	0.5945	0.5987	0.5184	0.8142
89	0.1501	0.7537	0.4206	0.3275	0.1711	0.8128	0.2939	0.4079	0.9537	0.5611	0.6001	0.3079	0.9584	0.8551	0.3490	0.6492	0.5701	0.4664	0.5979	0.6256
90	0.9214	0.1176	0.1741	0.3694	0.0799	0.8944	0.7342	0.3058	0.5297	0.0010	0.7937	0.1980	0.9871	0.9792	0.0100	0.8195	0.1117	0.2200	0.0127	0.3816
91	0.8001	0.8331	0.6753	0.0366	0.5387	0.2789	0.7520	0.1322	0.0119	0.0726	0.0429	0.8248	0.2049	0.7553	0.7611	0.7664	0.3073	0.8602	0.8178	0.5612
92	0.0123	0.3030	0.5105	0.0310	0.5195	0.8699	0.3985	0.7108	0.8283	0.4229	0.8462	0.5384	0.4819	0.5643	0.0687	0.7688	0.6637	0.2391	0.0216	0.5126
93	0.4199	0.0264	0.0000	0.5896	0.9720	0.9342	0.8706	0.3659	0.2363	0.1870	0.0046	0.7714	0.4011	0.3508	0.1975	0.4990	0.6025	0.9695	0.6547	0.8656
94	0.3385	0.8390	0.3938	0.3903	0.1618	0.3174	0.7938	0.0734	0.1348	0.0918	0.4482	0.1971	0.6493	0.6185	0.1473	0.7812	0.9247	0.3438	0.9321	0.5962
95	0.9644	0.3087	0.2972	0.0609	0.6270	0.4621	0.3266	0.5949	0.9523	0.5304	0.3262	0.2374	0.4058	0.8541	0.3620	0.0096	0.1869	0.6588	0.0054	0.8416
96	0.2798	0.8323	0.4906	0.5747	0.5313	0.1352	0.2064	0.9631	0.3616	0.5923	0.7286	0.4333	0.5003	0.4922	0.7036	0.9080	0.2397	0.0758	0.7956	0.5436
97	0.9689	0.9334	0.9319	0.4980	0.9714	0.1395	0.2487	0.5849	0.9412	0.5654	0.8563	0.5588	0.6976	0.8281	0.3032	0.8997	0.3842	0.3742	0.0256	0.1344
98	0.1832	0.5120	0.9578	0.0641	0.5296	0.9006	0.7957	0.1554	0.4671	0.1127	0.1659	0.5478	0.2009	0.8210	0.4706	0.0491	0.3226	0.4447	0.0301	0.0733
99	0.1538	0.0910	0.5368	0.6032	0.2698	0.9666	0.7869	0.3579	0.2478	0.1646	0.8877	0.3052	0.8920	0.5108	0.7430	0.9603	0.1321	0.0872	0.5217	0.6058
100	0.3197	0.1087	0.6029	0.7148	0.0446	0.0890	0.0568	0.4698	0.6177	0.6563	0.3529	0.7237	0.0677	0.8601	0.4387	0.3485	0.8402	0.5859	0.2426	0.2700
1	0.8741	0.0253	0.4697	0.2281	0.9693	0.1934	0.9612	0.2777	0.3983	0.2179	0.5607	0.1056	0.3601	0.1072	0.3436	0.0519	0.0820	0.9187	0.4127	0.2330
2	0.4250	0.0334	0.6942	0.6758	0.9640	0.1053	0.5831	0.4146	0.9364	0.3547	0.2522	0.9799	0.3627	0.3781	0.4002	0.7506	0.6804	0.4455	0.8062	0.8717
3	0.5159	0.8020	0.1990	0.0544	0.1184	0.6735	0.5907	0.5196	0.5971	0.1150	0.3669	0.4963	0.7242	0.0589	0.2680	0.6630	0.0664	0.2107	0.4599	0.4930
4	0.5708	0.3253	0.7841	0.5957	0.3223	0.9322	0.8426	0.4205	0.5453	0.2435	0.9143	0.5512	0.2260	0.0497	0.1767	0.2016	0.8897	0.8890	0.1418	0.2410
5	0.5515	0.7798	0.7885	0.1709	0.8518	0.6898	0.3844	0.8986	0.5057	0.4529	0.9579	0.1261	0.1396	0.7224	0.4899	0.2990	0.9234	0.9769	0.1972	0.5031
6	0.7205	0.1154	0.8246	0.6841	0.8066	0.1096	0.3204	0.2028	0.1713	0.9971	0.1859	0.4294	0.2093	0.1886	0.4007	0.2126	0.1343	0.7259	0.3202	0.3521
7	0.7121	0.4646	0.6148	0.5198	0.9823	0.8407	0.7791	0.4579	0.5406	0.6453	0.5352	0.8029	0.7329	0.4981	0.1353	0.9032	0.1004	0.2485	0.6639	0.2095
8	0.7722	0.7624	0.1790	0.4264	0.1088	0.5189	0.4546	0.2915	0.6057	0.9524	0.2872	0.5249	0.2419	0.6760	0.7724	0.2323	0.9821	0.0865	0.2780	0.3209
9	0.3671	0.0510	0.9903	0.0354	0.2887	0.7075	0.8928	0.4810	0.0411	0.2153	0.2521	0.2801	0.6859	0.2120	0.3050	0.3610	0.3873	0.2146	0.7379	0.5242
10	0.6657	0.2523	0.6420	0.9595	0.6693	0.7663	0.0486	0.1887	0.0779	0.9749	0.1119	0.1349	0.0887	0.6534	0.9947	0.7533	0.6425	0.4742	0.1754	0.5514
11	0.1546	0.9987	0.0693	0.2826	0.2888	0.7450	0.9066	0.4402	0.4525	0.3312	0.5226	0.2157	0.8835	0.3302	0.9733	0.2494	0.0829	0.2791	0.1937	0.3359
12	0.5141	0.0034	0.4960	0.0206	0.5717	0.6210	0.6792	0.4005	0.8872	0.5782	0.1385	0.9262	0.3319	0.9664	0.8552	0.4301	0.2477	0.3789	0.4802	0.7449
13	0.0849	0.9719	0.7256	0.3409	0.8445	0.5373	0.5098	0.0094	0.1675	0.6767	0.2160	0.2078	0.5123	0.3388	0.1644	0.6707	0.1926	0.1092	0.4638	0.2045
14	0.7565	0.4712	0.6684	0.0214	0.4936	0.5702	0.8362	0.4977	0.9905	0.2800	0.7574	0.3040	0.3449	0.3059	0.5180	0.9653	0.5342	0.3838	0.0157	0.4676
15	0.4948	0.8395	0.8147	0.3716	0.5470	0.9832	0.3709	0.3045	0.1823	0.6809	0.1168	0.1614	0.5627	0.1417	0.9777	0.5539	0.9941	0.3370	0.0534	0.4611
16	0.5908	0.6444	0.6516	0.2324	0.6581	0.0350	0.2220	0.5473	0.3708	0.2269	0.1720	0.3811	0.7301	0.9568	0.9652	0.9712	0.3085	0.7050	0.9025	0.8751
17	0.2748	0.1916	0.2987	0.1735	0.1210	0.4924	0.0011	0.6428	0.5658	0.8804	0.7483	0.4001	0.9057	0.6951	0.6496	0.1242	0.7455	0.3755	0.1708	0.2653
18	0.3559	0.6452	0.9879	0.5715	0.7784	0.3386	0.5238	0.9866	0.1289	0.9919	0.3317	0.9233	0.0170	0.3443	0.9144	0.2199	0.0850	0.3534	0.7599	0.2597
19	0.1616	0.4845	0.2256	0.5951	0.7969	0.5358	0.5721	0.0496	0.3973	0.8365	0.2797	0.1334	0.8545	0.6643	0.4409	0.2462	0.9660	0.5679	0.0090	0.0752
20	0.4996	0.7275	0.5072	0.3426	0.6070	0.3737	0.0035	0.3071	0.3441	0.4484	0.0697	0.9665	0.8878	0.9456	0.8160	0.6676	0.1378	0.4762	0.0163	0.5286
21	0.9967	0.9113	0.4054	0.8873	0.2341	0.8614	0.9909	0.9607	0.3584	0.6604	0.4976	0.5543	0.2717	0.4396	0.4020	0.6320	0.3739	0.5551	0.2508	0.2280
22	0.7317	0.3948	0.6522	0.3384	0.0159	0.5490	0.9649	0.1359	0.7915	0.6710	0.7795	0.7928	0.9491	0.7955	0.4958	0.3115	0.3355	0.1521	0.1505	0.0986
23	0.9709	0.3304	0.3136	0.1494	0.1779	0.0895	0.7352	0.1295	0.2040	0.5646	0.2814	0.5912	0.4361	0.2491	0.2178	0.8736	0.0452	0.0371	0.1061	0.2954
24	0.0019	0.3222	0.4723	0.2543	0.7570	0.4227	0.3322	0.8153	0.6393	0.7741	0.1576	0.6455	0.9923	0.1293	0.9402	0.7425	0.1635	0.3053	0.8428	0.8053
25	0.3878	0.6978	0.8680	0.2960	0.2652	0.5496	0.4986	0.8116	0.4050	0.0563	0.5206	0.1239	0.1115	0.2844	0.2377	0.2414	0.9279	0.4633	0.7896	0.3002
26	0.0674	0.7137	0.7427	0.8765	0.3867	0.0008	0.9745	0.2344	0.2792	0.9979	0.5729	0.7681	0.3976	0.9862	0.3216	0.2401	0.3444	0.8559	0.5074	0.9071
27	0.3646	0.5429	0.1104	0.7493	0.4999	0.3761	0.4404	0.1107	0.6172	0.7643	0.7208	0.1302	0.3165	0.2891	0.2215	0.5697	0.4763	0.6935	0.8553	0.1270
28	0.9837	0.3853	0.5779	0.1504	0.1548	0.4659	0.6180	0.0710	0.9375	0.6594	0.0859	0.4812	0.8297	0.8582	0.3712	0.3989	0.3328	0.4556	0.4233	0.8064
29	0.8485	0.1876	0.0482	0.9407	0.1292	0.3250	0.3935	0.3023	0.4148	0.1523	0.0753	0.0565	0.0576	0.1512	0.1439	0.9502	0.1837	0.0803	0.3560	0.7221
30	0.9088	0.4560	0.7684	0.2507	0.8522	0.7653	0.2912	0.8431	0.8086	0.9843	0.9430	0.2504	0.6430	0.0948	0.1575	0.8449	0.6586	0.1816	0.1558	0.1815



TABLE 1 Continued

31	0.4344	0.4156	0.6576	0.3566	0.3460	0.0116	0.5165	0.7512	0.0853	0.8352	0.7361	0.1619	0.5541	0.1323	0.8075	0.9722	0.0144	0.0344	0.6918	0.3403
32	0.9565	0.7731	0.9617	0.4315	0.4339	0.3927	0.4116	0.2869	0.1046	0.0031	0.3923	0.4178	0.1617	0.1363	0.9072	0.7202	0.2512	0.0557	0.5885	0.3614
33	0.0507	0.0774	0.3096	0.6794	0.3291	0.6923	0.3552	0.3361	0.5382	0.7389	0.2268	0.1391	0.2642	0.7171	0.3866	0.2288	0.4428	0.1372	0.4375	0.8381
34	0.8466	0.1698	0.3493	0.0152	0.1903	0.9833	0.1865	0.5817	0.8628	0.2114	0.3333	0.9254	0.3881	0.3710	0.1526	0.9126	0.0817	0.7477	0.4193	0.8253
35	0.0049	0.3731	0.4830	0.2632	0.1029	0.4622	0.8165	0.9814	0.8710	0.5350	0.9834	0.7932	0.2465	0.0087	0.9392	0.0913	0.8404	0.9760	0.5476	0.1522
36	0.5103	0.0177	0.7192	0.8528	0.1282	0.7195	0.0306	0.2029	0.2846	0.7383	0.3181	0.1250	0.0662	0.7252	0.5056	0.2942	0.0717	0.9780	0.0238	0.0621
37	0.1841	0.3589	0.7199	0.5823	0.2771	0.0016	0.3741	0.2617	0.7733	0.6266	0.1858	0.8974	0.9216	0.0067	0.6181	0.1630	0.5267	0.9298	0.2532	0.3091
38	0.9107	0.1193	0.5439	0.3432	0.6110	0.6511	0.6435	0.6669	0.0878	0.3723	0.7632	0.1125	0.8998	0.1437	0.7835	0.2793	0.9849	0.7011	0.5545	0.7438
39	0.9386	0.7911	0.5109	0.0352	0.7789	0.4875	0.2242	0.8648	0.7573	0.3861	0.6192	0.4246	0.2069	0.8371	0.3371	0.7214	0.0798	0.1917	0.6553	0.3366
40	0.3933	0.8994	0.1047	0.7000	0.2338	0.8373	0.6095	0.4949	0.7364	0.8769	0.4707	0.8372	0.0768	0.3217	0.8287	0.5700	0.0203	0.3453	0.7840	0.6015
41	0.7244	0.3834	0.1528	0.9479	0.6570	0.1191	0.3575	0.6922	0.1095	0.9742	0.8007	0.7594	0.8675	0.0669	0.1246	0.3290	0.0165	0.3195	0.3894	0.7626
42	0.2431	0.3681	0.9450	0.4750	0.8814	0.7410	0.8482	0.2904	0.5918	0.1413	0.9363	0.1083	0.2495	0.0646	0.2572	0.5259	0.6514	0.1162	0.1209	0.5887
43	0.2590	0.5318	0.5917	0.9398	0.2558	0.3268	0.2681	0.8206	0.5790	0.2749	0.9471	0.9202	0.5631	0.8927	0.0597	0.5125	0.8893	0.8350	0.7092	0.6750
44	0.4923	0.9283	0.9812	0.2002	0.4185	0.0676	0.6208	0.3942	0.0947	0.4618	0.9501	0.1773	0.0743	0.4730	0.2403	0.2310	0.9707	0.4034	0.4337	0.7308
45	0.5519	0.4490	0.1783	0.7334	0.3797	0.3264	0.4683	0.2427	0.6447	0.0324	0.9312	0.2654	0.7517	0.7125	0.2896	0.6370	0.1257	0.1152	0.2806	0.6154
46	0.1294	0.1185	0.9269	0.5405	0.4691	0.3297	0.4438	0.0307	0.6209	0.3784	0.6193	0.7965	0.9505	0.7900	0.8520	0.1164	0.7238	0.2703	0.1375	0.4019
47	0.8596	0.1896	0.7270	0.2175	0.8494	0.0860	0.6796	0.5976	0.0813	0.6179	0.9817	0.1806	0.8664	0.8227	0.8908	0.5741	0.3166	0.5813	0.0192	0.6230
48	0.4694	0.1923	0.3123	0.8425	0.3283	0.6439	0.0892	0.5459	0.0479	0.3963	0.9819	0.8567	0.9729	0.3445	0.9739	0.3539	0.2075	0.3518	0.2783	0.0080
49	0.3440	0.8823	0.6549	0.4786	0.3234	0.0047	0.5213	0.6608	0.0555	0.9624	0.4152	0.2147	0.3211	0.4154	0.4231	0.7498	0.7393	0.7035	0.1309	0.7141
50	0.3137	0.9770	0.4604	0.6644	0.6189	0.8799	0.7524	0.6330	0.2667	0.3172	0.6289	0.8783	0.3270	0.7335	0.4201	0.4857	0.9630	0.5523	0.9073	0.1758
51	0.3581	0.2252	0.6232	0.1540	0.5389	0.6756	0.4013	0.6133	0.3595	0.4782	0.5722	0.8834	0.1421	0.6216	0.3776	0.9744	0.5891	0.7962	0.2490	0.5033
52	0.3349	0.0068	0.0706	0.0645	0.9246	0.9185	0.5497	0.0956	0.8867	0.8329	0.8176	0.1537	0.0620	0.5985	0.8870	0.1891	0.0599	0.2082	0.6295	0.1227
53	0.8702	0.1273	0.5365	0.0037	0.4164	0.3468	0.4112	0.7813	0.1836	0.2471	0.5292	0.0265	0.7459	0.6840	0.1112	0.8421	0.7246	0.0437	0.1650	0.6359
54	0.8304	0.6726	0.9566	0.4117	0.4397	0.6655	0.3770	0.2614	0.7048	0.0791	0.1469	0.1511	0.0670	0.2081	0.0608	0.8289	0.0966	0.2138	0.2732	0.6931
55	0.0254	0.6233	0.9678	0.2762	0.4483	0.9795	0.8820	0.3013	0.3619	0.8247	0.5471	0.0501	0.0398	0.9288	0.7527	0.1362	0.4494	0.8013	0.7768	0.0634
56	0.5830	0.7376	0.6945	0.2251	0.7406	0.1444	0.3335	0.9873	0.3448	0.8711	0.8925	0.3921	0.2769	0.7587	0.7728	0.4480	0.4046	0.0228	0.6670	0.7839
57	0.8198	0.3621	0.5837	0.9520	0.4893	0.8448	0.4732	0.2860	0.4372	0.8333	0.3798	0.5820	0.2337	0.2332	0.1979	0.4532	0.3134	0.3267	0.5905	0.4787
58	0.5052	0.4538	0.2011	0.1574	0.9053	0.6929	0.2535	0.2637	0.2345	0.1090	0.7993	0.7635	0.1263	0.8773	0.2782	0.6151	0.7258	0.3368	0.7987	0.6961
59	0.2325	0.6491	0.4850	0.3495	0.6738	0.3826	0.0553	0.0074	0.0547	0.7669	0.0957	0.3630	0.2158	0.6674	0.7667	0.8047	0.9924	0.7884	0.8368	0.5996
60	0.6611	0.7633	0.7209	0.3995	0.2305	0.0552	0.7178	0.0440	0.2300	0.0339	0.6755	0.9528	0.2750	0.1373	0.6377	0.4531	0.9906	0.7443	0.7940	0.9738
61	0.5990	0.8619	0.0045	0.5209	0.7312	0.9347	0.6860	0.9730	0.1495	0.7293	0.3364	0.6474	0.4720	0.5657	0.7276	0.5044	0.3176	0.1609	0.9897	0.6510
62	0.0182	0.0453	0.4547	0.4741	0.4921	0.2148	0.3006	0.9019	0.4318	0.7190	0.7894	0.2565	0.2322	0.1457	0.8089	0.8035	0.3247	0.0713	0.9359	0.2829
63	0.8249	0.3860	0.4920	0.9976	0.8906	0.6255	0.1196	0.2299	0.6101	0.0336	0.6119	0.7235	0.8597	0.9949	0.4739	0.5309	0.3376	0.7176	0.0349	0.3802
64	0.6971	0.7834	0.6139	0.6723	0.7129	0.1314	0.0912	0.5091	0.0460	0.6464	0.7248	0.5383	0.2928	0.7581	0.0304	0.4956	0.4195	0.7566	0.2077	0.1851
65	0.0950	0.3545	0.7377	0.1624	0.1084	0.1789	0.1297	0.2573	0.2464	0.8598	0.1212	0.7038	0.9061	0.3720	0.1940	0.6421	0.8203	0.2091	0.7311	0.4866
66	0.3232	0.0450	0.5847	0.8581	0.3425	0.9237	0.9939	0.6105	0.4268	0.5974	0.9894	0.2861	0.2859	0.8560	0.5298	0.6267	0.4513	0.2423	0.0862	0.2502
67	0.9787	0.0770	0.6636	0.3313	0.0058	0.4815	0.6813	0.3647	0.9095	0.6327	0.5254	0.4363	0.3857	0.8943	0.1530	0.8422	0.6930	0.5913	0.5731	0.7825
68	0.7155	0.7177	0.8068	0.1728	0.8844	0.1729	0.1731	0.2671	0.6937	0.1303	0.1085	0.6754	0.1929	0.4118	0.3818	0.4485	0.6411	0.2333	0.4967	0.9638
69	0.1262	0.4871	0.5049	0.6835	0.4915	0.8757	0.2515	0.7149	0.8378	0.3363	0.5401	0.2863	0.1158	0.9685	0.0815	0.3645	0.2648	0.3049	0.9580	0.9431
70	0.5533	0.7899	0.6157	0.8842	0.9651	0.9059	0.2083	0.9574	0.8409	0.5136	0.2059	0.0220	0.5110	0.8014	0.5596	0.4574	0.1849	0.4657	0.8896	0.7333
71	0.7661	0.6174	0.0764	0.1888	0.6903	0.9427	0.0577	0.7060	0.4655	0.2440	0.2149	0.4863	0.9459	0.8961	0.6748	0.7467	0.2368	0.8136	0.2007	0.2072
72	0.9326	0.1482	0.5878	0.9708	0.1883	0.3557	0.4165	0.5594	0.9434	0.7409	0.8139	0.5825	0.4717	0.8506	0.9964	0.6963	0.0897	0.2517	0.9002	0.1963
73	0.8622	0.8916	0.7319	0.3061	0.0255	0.5723	0.5608	0.9917	0.6708	0.1123	0.4909	0.4495	0.8914	0.7619	0.8260	0.5586	0.8689	0.1536	0.2917	0.4134
74	0.0132	0.1077	0.0647	0.6607	0.7503	0.4128	0.4500	0.0233	0.5801	0.5561	0.5829	0.2619	0.1483	0.2169	0.0680	0.0802	0.7874	0.4726	0.1337	0.0914
75	0.1648	0.3876	0.1428	0.9024	0.0545	0.3420	0.5636	0.4550	0.5662	0.0518	0.1219	0.6917	0.2692	0.2997	0.7182	0.2267	0.6580	0.4261	0.2594	0.5805
76	0.2549	0.4354	0.0466	0.3454	0.7165	0.0598	0.7346	0.5778	0.6838	0.4258	0.4356	0.5524	0.7655	0.6082	0.8112	0.8386	0.1429	0.6980	0.3734	0.2279
77	0.5325	0.3390	0.3362	0.3141	0.0341	0.1308	0.1305	0.2433	0.7371	0.0403	0.4766	0.0949	0.0594	0.0076	0.5079	0.6017	0.1601	0.8342	0.1515	0.2140
78	0.3888	0.1331	0.0891	0.6977	0.1456	0.6078	0.9385	0.3690	0.5113	0.1908	0.2163	0.7309	0.3252	0.6251	0.4928	0.4985	0.9297	0.2974	0.1545	0.1296



TABLE 1 Continued

79	0.0920	0.8863	0.1116	0.2137	0.3356	0.3041	0.8723	0.2818	0.0650	0.8576	0.6910	0.3483	0.0538	0.3915	0.6213	0.1121	0.0854	0.0204	0.9424	0.8979
80	0.9104	0.8658	0.5345	0.0418	0.5930	0.2951	0.3535	0.8534	0.6768	0.6691	0.2676	0.9975	0.0685	0.7064	0.4735	0.9673	0.2285	0.1389	0.1868	0.0776
81	0.2580	0.5557	0.4918	0.1676	0.9764	0.0642	0.6235	0.5465	0.4078	0.3675	0.4685	0.2161	0.2105	0.4367	0.6159	0.6908	0.4144	0.1638	0.4591	0.7101
82	0.6665	0.0251	0.1035	0.7883	0.5475	0.5448	0.1607	0.1583	0.9813	0.2023	0.5306	0.3900	0.0974	0.4669	0.2313	0.1243	0.7646	0.0995	0.2030	0.5674
83	0.0847	0.8263	0.5791	0.1038	0.7323	0.4109	0.2634	0.2066	0.4081	0.0582	0.5343	0.8310	0.2458	0.6361	0.1369	0.1054	0.8216	0.3099	0.1461	0.1071
84	0.9287	0.9177	0.1009	0.7112	0.4326	0.4856	0.7359	0.1181	0.0142	0.6373	0.1180	0.5130	0.0171	0.2186	0.8197	0.6385	0.7547	0.2754	0.1759	0.6882
85	0.7468	0.3793	0.9597	0.3015	0.5902	0.0814	0.0769	0.1750	0.9159	0.6402	0.7887	0.8217	0.8391	0.6147	0.7437	0.2833	0.8983	0.4327	0.1224	0.4349
86	0.7381	0.3458	0.3338	0.9241	0.5336	0.3859	0.4359	0.1895	0.9286	0.8033	0.6071	0.1751	0.6104	0.1831	0.9178	0.8633	0.8509	0.7086	0.0196	0.9200
87	0.4927	0.6663	0.6386	0.9686	0.0408	0.3837	0.4466	0.4157	0.1174	0.1936	0.1580	0.5051	0.0082	0.4176	0.2119	0.3605	0.6985	0.0696	0.3651	0.4919
88	0.4993	0.3986	0.1113	0.6742	0.9229	0.5185	0.8288	0.8793	0.3847	0.6862	0.8354	0.0167	0.9089	0.1021	0.3947	0.3862	0.2840	0.0240	0.5161	0.8003
89	0.7287	0.4249	0.1393	0.9409	0.2956	0.5035	0.8608	0.8326	0.0246	0.5686	0.1777	0.0195	0.0326	0.8910	0.3597	0.0537	0.6061	0.0964	0.8937	0.3598
90	0.8148	0.0930	0.3593	0.5839	0.3104	0.5278	0.5314	0.3399	0.2225	0.9311	0.5780	0.7867	0.5549	0.1881	0.0824	0.1748	0.9074	0.8194	0.7616	0.8867
91	0.9484	0.1042	0.0810	0.2651	0.4983	0.4180	0.3546	0.1774	0.9734	0.0426	0.7241	0.3154	0.4383	0.7045	0.1610	0.0020	0.8858	0.8037	0.8953	0.9526
92	0.7868	0.5509	0.4649	0.3561	0.9582	0.1699	0.6770	0.1401	0.7119	0.0381	0.0330	0.6828	0.7948	0.3424	0.3320	0.7135	0.3018	0.9243	0.2630	0.0792
93	0.1367	0.4017	0.4832	0.2858	0.5319	0.0213	0.0279	0.0525	0.2021	0.4452	0.1817	0.1904	0.4430	0.5754	0.8459	0.3887	0.2559	0.2296	0.2643	0.8958
94	0.9273	0.8932	0.7534	0.2476	0.1510	0.5720	0.5456	0.4708	0.9428	0.6946	0.1710	0.0399	0.2226	0.1946	0.9445	0.4692	0.0295	0.9460	0.0247	0.4244
95	0.7157	0.9778	0.8019	0.8999	0.4097	0.7765	0.3231	0.7514	0.2964	0.7499	0.7944	0.8360	0.4522	0.8229	0.0169	0.5683	0.2141	0.7519	0.2457	0.2459
96	0.6451	0.5704	0.1944	0.1012	0.4491	0.6204	0.7020	0.4793	0.6050	0.0996	0.5668	0.0976	0.0644	0.6350	0.0695	0.2450	0.5311	0.1008	0.6265	0.3133
97	0.0463	0.8554	0.7056	0.9581	0.0863	0.9727	0.2027	0.6347	0.5601	0.4271	0.9455	0.9848	0.3414	0.6344	0.0757	0.6445	0.4060	0.2719	0.8817	0.0409
98	0.0081	0.6275	0.0797	0.5445	0.8158	0.8223	0.4270	0.9910	0.1584	0.9007	0.0574	0.1620	0.6647	0.2255	0.8024	0.1925	0.8651	0.2282	0.7339	0.4239
99	0.0660	0.8542	0.6777	0.0314	0.7357	0.4533	0.9358	0.8529	0.5773	0.9504	0.7280	0.2404	0.2057	0.9728	0.4463	0.3055	0.3525	0.7757	0.9918	0.8484
100	0.4434	0.8270	0.4679	0.1235	0.1842	0.0191	0.4648	0.1338	0.4807	0.6561	0.2981	0.5375	0.5667	0.6448	0.7348	0.6558	0.7939	0.8095	0.5156	0.1589

4. Selection Procedures

4.1 Sampling from a Belt or Flowing Stream of Material:

4.1.1 Determine the length of time, t , in minutes, for the lot of material to be sampled to pass the sampling point and determine the number of samples, n , to be taken from the lot. Following the instructions accompanying Table 1, pick n numbers to determine the times t to select the necessary samples.

4.1.2 Example:

4.1.2.1 The lot of material to be sampled from a flowing stream at a transfer point is defined as 480 min of production. Five samples are required from the lot. From Table 1, the following five numbers were picked:

0.0918
0.4205
0.2171
0.3702
0.0061

The first three digits are used directly (decimals disregarded) to determine the sample selection times. Any number over 480 should be discarded and another chosen.

4.1.2.2 Thus, samples will be taken at the following times after production begins (to the nearest 1 min and arranged in chronological order):

min
6
91
217
370
420

NOTE 4—The user may wish to decide a minimum time to allow the plant to become fully operational. In cases where the picked number results in a time less than this, the user should discard the picked number and choose another.

NOTE 5—While the above exact times were picked, in practice, the user may wish to round off actual sampling times to the nearest 5 min.

4.2 Sampling From a Windrow of Material:

4.2.1 Determine the total length of one windrow in metres that represents a lot of material and determine the number of samples, n , to be taken from the lot. Following the instruction accompanying Table 1, pick n numbers to determine the length, (l), from the start of the windrow from which samples will be taken.

4.2.2 Example:

4.2.2.1 A lot of material has been placed in windrows 900 m in length. It is desired to secure three samples from this lot. From Table 1 the following three numbers are picked:

0.5269
0.7044
0.1931

4.2.2.2 These numbers are then multiplied by 900 giving the number of metres from the beginning of the windrow at which to sample. Thus, samples (rounded to the nearest metre and arranged in sequence) are selected at the following intervals:

174 m (900×0.1931)
474 m (900×0.5269)
634 m (900×0.7044)

4.3 Sampling In-Place Paving Material:

4.3.1 Determine the length of one pavement representing a lot of material, the width of the pavement, w , and the number

of samples needed for each lot, n . Following the instructions accompanying Table 1, pick l numbers corresponding to the length of pavement, followed by picking w numbers for width determination.

4.3.2 Example:

4.3.2.1 A lot is defined as 1.6 km of in-place 3.6-m wide pavement. Two samples are to be taken from each lot. Since there are 1600 m in the lot, enter the table and pick two numbers, which are then multiplied by 1600 m. In this instance, the two numbers chosen were:

0.3768
0.5295

4.3.2.2 Thus, the two samples will be taken at 603 and 847 m from the beginning of the pavement.

4.3.2.3 Determine the location from the edge of the pavement by selecting two additional numbers from Table 1, which are then multiplied by 3.6. In this case, the two numbers chosen were:

0.5127
0.7082

4.3.2.4 Therefore, the first sample should be taken 603 m from the beginning of the pavement (see 4.3.2.2) and 1.8 m from the designated (right or left) edge of the pavement.

4.3.2.5 The second sample should be taken 847 m from the beginning of the pavement and 2.5 m from the designated (right or left) edge of the pavement.

4.4 Sampling From a Loaded Truck:

4.4.1 Determine the number of truck loads that represent a lot of material and determine the number of samples, n , needed from each lot. To determine which trucks to sample, pick n numbers from Table 1 and multiply these numbers by the number of trucks in the lot. To determine the quadrant in each truck to be sampled, choose n numbers from Table 1 and multiply by 4. Select the quadrant in accordance with the following criteria. Quadrant locations of the truck are numbered as shown in Fig. 1.

Calculated Random Number, N	Quadrant
$N \leq 1.0$	1
$1.0 < N \leq 2.0$	2
$2.0 < N \leq 3.0$	3
$3.0 < N \leq 4.0$	4

4.4.2 Example:

4.4.2.1 Twenty trucks are considered a lot and three samples are required. Using Table 1, the following three numbers were picked:

0.2516
0.4243
0.8657

4.4.2.2 Thus, trucks numbered 5 (0.2516×20), 8 (0.4243×20), and 17 (0.8657×20) should be sampled.

4.4.2.3 To determine the quadrant locations, the following numbers were picked:

0.1100
0.3809
0.0641

These are multiplied by 4 with the following results:

Quadrant 1 from truck No. 5 (4×0.1100)
Quadrant 2 from truck No. 8 (4×0.3807)
Quadrant 1 from truck No. 17 (4×0.0641)

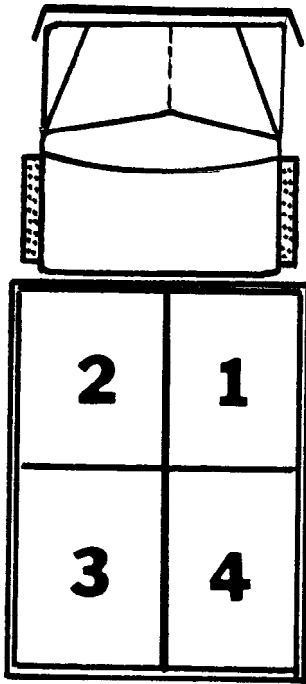


FIG. 1 Quadrants for Random Sampling from a Loaded Truck

5. Instructions for Using the Four-Digit Table of Numbers (Table 1)

5.1 Table 1 consists of all numbers from 0.0000 to 1.0000. Each number appears only once.

5.2 Electronic calculators or random number generators can be used to select rows and columns. Another method is to use Table 1 and a pointer. To eliminate bias when the pointer method is used, copy Table 1 from the book and place the pages on a flat surface in such a manner that the entire 100 line by 100 column table is assembled on the flat surface. Point without looking to a number in the table. The pointer may be a mechanical pencil with the lead retracted, the tip of a letter opener, or other pointed device.

5.3 After picking a number, the basis is established for locating the sought-after number in a more random, unbiased method.

5.4 Examine the first two digits of the four-digit number chosen. This number locates the column number (the horizontal line at the top) to be used in finding the sought-after number.

NOTE 6—The digits 0.0000 to 0.0099 are used for column number 100.

5.5 Once the column number is chosen, repeat the procedure in 5.2 and, using the first two digits, pick the line number (the vertical column on the left of the table).

5.6 The intersection of the results from 5.4 and 5.5 is the sought-after number.

5.7 The procedure, to be unbiased, must be followed as detailed in the foregoing or by some other locally devised method by which the user has no control over the numbers chosen. The table must be entered separately for any and all numbers selected. Repeat the selection procedure if an unusable number results.

5.8 Two alternative methods are described in 5.8.1 and 5.8.2. They are not considered as correct theoretically as the procedure described in 5.2 through 5.7; however, except in cases of dispute, they are considered to be acceptable alternatives for normal usage.

5.8.1 *Alternative 1*— Enter the table as described in 5.2, deciding beforehand that the required number of digits will be selected by moving up, down, right, or left from the number picked. Discard unusable numbers, and continue to the next number in the same direction. Decide beforehand what action to take when a number on the periphery of the table is reached and additional selections are needed.

5.8.2 *Alternative 2*— The user decides beforehand to begin in the top left corner (or top center, or bottom right, etc.) and move right and down (or left and up) picking the number of required usable numbers. Other variances might be: moving in the preplanned direction, picking every other number, or every third number, etc. Exercise care in using this method, giving numbers in the middle of the table an equal chance of being selected for any given time period.

6. Keywords

6.1 random number tables; sampling, random

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