

Table 12—Critical Values for the Number of Runs

Reject the null hypothesis when the test statistic G is less than or equal to the smaller entry or greater than or equal to the larger entry.

		Value of n_2																		
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Value of n_1	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	4	1	1	1	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4
	5	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	6	1	1	2	2	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5
	7	6	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	8	1	2	2	3	3	3	3	4	4	4	4	5	5	5	5	5	5	6	6
	9	6	8	9	10	10	11	11	12	12	12	12	12	12	12	12	12	12	12	12
	10	1	2	3	3	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6
	11	6	8	10	11	12	13	13	14	14	14	14	15	15	15	16	16	16	16	16
	12	1	2	3	3	4	4	5	5	6	6	6	7	7	7	7	7	7	7	7
	13	6	8	10	11	12	13	14	14	15	15	16	16	16	16	17	17	17	17	17
	14	1	2	3	4	4	5	5	6	6	7	7	7	8	8	8	8	8	8	8
	15	6	8	10	12	13	14	14	15	16	16	17	17	18	18	18	18	18	18	18
	16	1	2	3	4	5	5	6	6	7	7	7	8	8	8	9	9	9	9	9
	17	6	8	10	12	13	14	15	16	17	17	18	18	19	19	19	19	19	20	20
	18	1	2	3	4	5	6	6	7	7	8	8	8	9	9	9	9	9	9	9
	19	6	8	10	12	13	14	15	16	17	18	18	19	19	20	20	20	20	21	21
	20	2	2	3	4	5	6	6	7	7	7	8	8	8	8	9	9	9	10	10

Note: Table 12 is for a two-tailed test with $\alpha = 0.05$.

From the Institute of Mathematical Statistics.