

TABLE G

Critical values of r in the runs test*

Given in the tables are various critical values of r for values of m and n less than or equal to 20. For the one-sample runs test, any observed value of r which is less than or equal to the smaller value, or is greater than or equal to the larger value in a pair is significant at the $\alpha = .05$ level.

m \ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2											2	2	2	2	2	2	2	2	2
3					2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
4			2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4
5		2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	5	5	5
6	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	6	6
7	2	2	3	3	3	4	4	4	5	5	5	5	5	6	6	6	6	6	6
8	2	3	3	3	4	4	4	5	5	5	6	6	6	6	6	7	7	7	7
9	2	3	3	4	4	4	5	5	5	6	6	6	7	7	7	7	8	8	8
10	2	3	3	4	5	5	5	6	6	7	7	7	7	8	8	8	8	9	9
11	2	3	4	4	5	5	6	6	7	7	7	8	8	8	9	9	9	9	9
12	2	2	3	4	4	5	6	6	7	7	7	8	8	8	9	9	9	10	10
13	2	2	3	4	5	5	6	6	7	7	8	8	9	9	9	10	10	10	10
14	2	2	3	4	5	5	6	7	7	8	8	9	9	9	10	10	10	11	11
15	2	3	3	4	5	6	6	7	7	8	8	9	9	10	10	11	11	11	12
16	2	3	4	4	5	6	6	7	8	8	9	9	10	10	11	11	11	12	12
17	2	3	4	4	5	6	7	7	8	9	9	10	10	11	11	11	12	12	13
18	2	3	4	5	5	6	7	8	8	9	9	10	10	11	11	12	12	13	13
19	2	3	4	5	6	6	7	8	8	9	10	10	11	11	12	12	13	13	13
20	2	3	4	5	6	6	7	8	9	9	10	10	11	12	12	13	13	13	14

* Adapted from Swed, and Eisenhart, C. (1943). Tables for testing randomness of grouping in a sequence of alternatives. *Annals of Mathematical Statistics*, 14, 83-86, with the kind permission of the authors and publisher.