

**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 | 3 | 3 | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 4  | 4  | 4  |
| 5     |   |   | 2 | 2 | 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  | 5  | 5  | 5  | 5  | 5  | 5  | 6  | 6  |
| 7     |   | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5  | 5  | 5  | 5  | 5  | 6  | 6  | 6  | 6  | 6  | 6  |
| 8     |   | 2 | 3 | 3 | 3 | 4 | 4 | 5 | 5  | 5  | 6  | 6  | 6  | 6  | 6  | 7  | 7  | 7  | 7  |
| 9     |   | 2 | 3 | 3 | 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  | 8  | 8  | 8  | 8  | 9  | 9  |
| 11    |   | 2 | 3 | 4 | 4 | 5 | 5 | 6 | 6  | 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.