This table shows critical values at *α* = 0.05 for a two-tailed test.

Each cell shows two values, one smaller and one larger. Reject *H0* if:

1. The number of runs is less than or equal to the smaller value, ***OR***
2. The number of runs is greater than or equal to the larger value.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **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, 6 | 1, 6 | 1, 6 | 1, 6 | 1, 6 | 1, 6 | 1, 6 | 1, 6 | 1, 6 | 1, 6 | 2, 6 | 2, 6 | 2, 6 | 2, 6 | 2, 6 | 2, 6 | 2, 6 | 2, 6 | 2, 6 |
| ***3*** | 1, 6 | 1, 8 | 1, 8 | 1, 8 | 2, 8 | 2, 8 | 2, 8 | 2, 8 | 2, 8 | 2, 8 | 2, 8 | 2, 8 | 2, 8 | 3, 8 | 3, 8 | 3, 8 | 3, 8 | 3, 8 | 3, 8 |
| ***4*** | 1,6 | 1,8 | 1, 9 | 2, 9 | 2, 9 | 2, 10 | 3, 10 | 3, 10 | 3, 10 | 3, 10 | 3, 10 | 3, 10 | 3, 10 | 3, 10 | 4, 10 | 4, 10 | 4, 10 | 4, 10 | 4, 10 |
| ***5*** | 1, 6 | 1, 8 | 2, 9 | 2, 10 | 3, 10 | 3, 11 | 3, 11 | 3, 12 | 3, 12 | 4, 12 | 4, 12 | 4, 12 | 4, 12 | 4, 12 | 4, 12 | 4, 12 | 5, 12 | 5, 12 | 5, 12 |
| ***6*** | 1, 6 | 2, 8 | 2, 9 | 3, 10 | 3, 11 | 3, 12 | 3, 12 | 4, 13 | 4, 13 | 4, 13 | 4, 13 | 5, 14 | 5, 14 | 5, 14 | 5, 14 | 5, 14 | 5, 14 | 6, 14 | 6, 14 |
| ***7*** | 1, 6 | 2, 8 | 2, 10 | 3, 11 | 3, 12 | 3, 13 | 4, 13 | 4, 14 | 5, 14 | 5, 14 | 5, 14 | 5, 15 | 5, 15 | 6, 15 | 6, 16 | 6, 16 | 6, 16 | 6, 16 | 6, 16 |
| ***8*** | 1, 6 | 2, 8 | 3, 10 | 3, 11 | 3, 12 | 4, 13 | 4, 14 | 5, 14 | 5, 15 | 5, 15 | 6, 16 | 6, 16 | 6, 16 | 6, 16 | 6, 17 | 7, 17 | 7, 17 | 7, 17 | 7, 17 |
| ***9*** | 1, 6 | 2, 8 | 3, 10 | 3, 12 | 4, 13 | 4, 14 | 5, 14 | 5, 15 | 5, 16 | 6, 16 | 6, 16 | 6, 17 | 7, 17 | 7, 18 | 7, 18 | 7, 18 | 8, 18 | 8, 18 | 8, 18 |
| ***10*** | 1, 6 | 2, 8 | 3, 10 | 3, 12 | 4, 13 | 5, 14 | 5, 15 | 5, 16 | 6, 16 | 6, 17 | 7, 17 | 7, 18 | 7, 18 | 7, 18 | 8, 19 | 8, 19 | 8, 19 | 8, 20 | 9, 20 |
| ***11*** | 1, 6 | 2, 8 | 3, 10 | 4, 12 | 4, 13 | 5, 14 | 5, 15 | 6, 16 | 6, 17 | 7, 17 | 7, 18 | 7, 19 | 8, 19 | 8, 19 | 8, 20 | 9, 20 | 9, 20 | 9, 21 | 9, 21 |
| ***12*** | 2, 6 | 2, 8 | 3, 10 | 4, 12 | 4, 13 | 5, 14 | 6, 16 | 6, 16 | 7, 17 | 7, 18 | 7, 19 | 8, 19 | 8, 20 | 8, 20 | 9, 21 | 9, 21 | 9, 21 | 10, 22 | 10, 22 |
| ***13*** | 2, 6 | 2, 8 | 3, 10 | 4, 12 | 5, 14 | 5, 15 | 6, 16 | 6, 17 | 7, 18 | 7, 19 | 8, 19 | 8, 20 | 9, 20 | 9, 21 | 9, 21 | 10, 22 | 10, 22 | 10, 23 | 10, 23 |
| ***14*** | 2, 6 | 2, 8 | 3, 10 | 4, 12 | 5, 14 | 5, 15 | 6, 16 | 7, 17 | 7, 18 | 8, 19 | 8, 20 | 9, 20 | 9, 21 | 9, 22 | 10, 22 | 10, 23 | 10, 23 | 11, 23 | 11, 24 |
| ***15*** | 2, 6 | 3, 8 | 3, 10 | 4, 12 | 5, 14 | 6, 15 | 6, 16 | 7, 18 | 7, 18 | 8, 19 | 8, 20 | 9, 21 | 9, 22 | 10, 22 | 10, 23 | 11, 23 | 11, 24 | 11, 24 | 12, 25 |
| ***16*** | 2, 6 | 3, 8 | 4, 10 | 4, 12 | 5, 14 | 6, 16 | 6, 17 | 7, 18 | 8, 19 | 8, 20 | 9, 21 | 9, 21 | 10, 22 | 10, 23 | 11, 23 | 11, 24 | 11, 25 | 12, 15 | 12, 25 |
| ***17*** | 2, 6 | 3, 8 | 4, 10 | 4, 12 | 5, 14 | 6, 16 | 7, 17 | 7, 18 | 8, 19 | 9, 20 | 9, 21 | 10, 22 | 10, 23 | 11, 23 | 11, 24 | 11, 25 | 12, 25 | 12, 26 | 13, 26 |
| ***18*** | 2, 6 | 3, 8 | 4, 10 | 5, 12 | 5, 14 | 6, 16 | 7, 17 | 8, 18 | 8, 19 | 9, 20 | 9, 21 | 10, 22 | 10, 23 | 11, 24 | 11, 25 | 12, 25 | 12, 26 | 13, 26 | 13, 27 |
| ***19*** | 2, 6 | 3, 8 | 4, 10 | 5, 12 | 6, 14 | 6, 16 | 7, 17 | 8, 18 | 8, 20 | 9, 21 | 10, 22 | 10, 23 | 11, 23 | 11, 24 | 12, 25 | 12, 26 | 13, 26 | 13, 27 | 13, 27 |
| ***20*** | 2, 6 | 3, 8 | 4, 10 | 5, 12 | 6, 14 | 6, 16 | 7, 17 | 8, 18 | 9, 20 | 9, 21 | 10, 22 | 10, 23 | 11, 24 | 12, 25 | 12, 25 | 13, 26 | 13, 27 | 13, 27 | 14, 28 |

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