The values of k when they exceed r (2-bug, 12 groups of REFs)

| | Group | 1 (195) | Group | 2 (191) | Group | 3 (199) | Group | 4 (155) | Group | 5 (193) | Group | 6 (196) | Group | 7 (194) | Group | 8 (193) | Group | 9 (193) | Group1 | LO (192) | Group1 | 1 (194) | Group12(| 179) |
|----|----------|---------|----------|---------|----------|---------|-------|---------|----------|---------|---------------|---------|----------|---------|----------|---------|--------|---------|----------|----------|---------|---------|----------|----------|
| | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k>r k | < r |
| 1 | 38 | | 32 | 1 | 61 | 1 | 4 | 1 | 33 | 1 | 16 | 1 | 39 | | 39 | 1 | 16 | 1 | 32 | 1 | 23 | 1 | 10 | 1 |
| 2 | 34 | | 31 | | 37 | 1 | 3 | 1 | 30 | | 9 | 1 | | | 37 | 1 | 6 | 1 | 31 | 1 | 18 | 1 | 16 | |
| 3 | 39 | | 34 | | 55 | 1 | 6 | 1 | 35 | | 13 | 1 | | | 39 | 1 | 13 | 1 | 34 | 1 | 17 | 1 | 8 | |
| 4 | 38 | | 33 | | 41 | | 12 | 1 | 36 | | 19 | 1 | | | 38 | 1 | 18 | 1 | 21 | 1 | 16 | | 14 | |
| 5 | 49 | | 43 | | 50 | | 3 | 1 | 45 | | 11 | 1 | 50 | | 54 | | 11 | 1 | 19 | 1 | 9 | | 13 | |
| 6 | 39 | | 34 | | 55 | | 3 | 1 | 35 | | 13 | 1 | | | 39 | | 13 | 1 | 34 | | 17 | | 8 | |
| 7 | 43 | | 33 | | 47 | | 6 | 1 | 35 | | 24 | 1 | | | 45 | | 23 | 1 | 29 | | 8 | | 10 | |
| 8 | 39 | | 36 | | 52 | | 8 | 1 | 36 | | 20 | 1 | . 0 | | 40 | | 20 | 1 | 29 | | 15 | | 15 | |
| 9 | 38 | | 36 | | 36 | | 10 | 1 | 36 | | 11 | | 36 | | 36 | | 11 | | 26 | | 13 | | 30 | |
| 10 | 39 | | 36 | | 41 | | 7 | 1 | 36 | | 14 | | 37 | | 36 | | 14 | | 26 | | 14 | | 30 | |
| 11 | 35 | | 32 | | 42 | | 10 | 1 | 32 | | 11 | | 35 | | 37 | | 11 | | 30 | | 11 | | 18 | |
| 12 | 36 | | 37 | | 45 | | 8 | 1 | 36 | | 5 | | 35 | | 35 | | 4 | | 18 | | 5 | | 11 | |
| 13 | 46 | | 43 | | 55 | | 8 | 1 | 45 | | 13 | | 47 | | 48 | | 13 | | 27 | | 11 | | 11 | |
| 14 | 40 | | 36 | | 50 | | 6 | 1 | 36 | | 21 | | 41 | | 40 | | 20 | | 27 | | 15 | | 14 | |
| 15 | 40 | | 36 | | 50 | | 7 | 1 | 36 | | 21 | | 41 | | 40 | | 20 | | 27 | | 15 | | 14 | |
| 16 | 45 | | 40 | | 63 | | 9 | 1 | 43 | | 10 | | 44 | | 45 | | 10 | | 38 | | 26 | | 19 | |
| 17 | 35 | | 32 | | 43 | | 6 | 1 | 33 | | 10 | | 35 | | 36 | | 10 | | 31 | | 11 | | 16 | |
| 18 | 39 | | 34 | | 44 | | 4 | | 36 | | 12 | | 39 | | 39 | | 11 | | 27 | | 13 | | 16 | |
| 19 | 42 | | 38 | | 48 | | 4 | | 40 | | 5 | | 42 | | 42 | | 5 | | 27 | | 10 | | 13 | |
| 20 | 29 | | 32 | | 35 | | 7 | | 31 | | 4 | | 27 | | 27 | | 3 | | 31 | | 18 | | 10 | |
| 21 | 29 | | 32 | | 35 | | 5 | | 31 | | 4 | | 27 | | 27 | | 3 | | 31 | | 18 | | 10 | |
| 22 | 40 | | 39 | | 37 | | 3 | | 40 | | 8 | | 40 | | 40 | | 8 | | 39 | | 9 | | 12 | |
| 23 | 30 | | 31 | | 38 | | 10 | | 30 | | 4 | | 30 | | 31 | | 4 | | 29 | | 3 | | 6 | |
| 24 | 40 | | 40 | | 46 | | 4 | | 38 | | 9 | | 40 | | 42 | | 8 | | 43 | | 17 | | 12 | |
| 25 | 39 | | 35 | | 47 | | 4 | | 36 | | 8 | | 40 | | 39 | | 8 | | 21 | | 9 | | 8 | |
| 26 | 27 | | 27 | | 28 | | 3 | | 27 | | 6 | | 28 | | 29 | | 6 | | 13 | | 6 | | 6 | |
| 27 | 33 | | 30 | | 35 | | 3 | | 35 | | 3 | | 33 | | 32 | | 3 | | 24 | | 32 | | 18 | _ |
| 28 | 36 | | 33 | | 37 | | 10 | | 34 | | 6 | | 36 | | 37 | | 6 | | 33 | | 6 | | 10 | |
| 29 | 50 | | 40 | | 53 | | 6 | | 46 | | 10 | | 46 | | 48 | | 9 | | 25 | | 17 | | 22 | |
| 30 | 23 30 | | 22 | | 25 31 | | 3 | | 22 | | <u>4</u> 5 | | 24 30 | | 26 32 | | 4 5 | | 25 22 | | 6 16 | | 8 12 | |
| 31 | | | 30 | | | | 4 | | 29 | | 4 | | 4 | | | | | | 3 | | 7 | | | |
| 32 | 4 22 | | 21 31 | | 29 39 | | 5 | | 21 31 | | 4 | | 22 | | 23 27 | | 4 | | 18 | | 13 | | 5 10 | - |
| 34 | 29 | | 30 | | 36 | | 7 | | 36 | | 6 | | 27 | | 35 | | 6 | | 28 | | 22 | | 11 | |
| 35 | 36 | | 40 | | 53 | | 6 | | 46 | | 10 | | 36 | | 48 | | 9 | | 34 | | 18 | | 15 | \dashv |
| 36 | 50 | | 33 | | 36 | | 6 | | 33 | | 6 | | 46 | | 35 | | 6 | | 24 | | 17 | | 20 | - |
| 37 | 34 | | 31 | | 41 | | 6 | | 33 | | 5 | | 34 | | 34 | | 4 | | 17 | | 7 | | 9 | \dashv |

| 38 | 34 | 40 | 42 | 4 | 39 | 4 | 34 | 30 | 4 | 25 | 9 | 8 |
|----|----|----|------|---|----|----|----|----|----|----|--------------|----|
| 39 | 31 | 31 | | | 32 | 10 | 31 | 36 | 10 | | | 9 |
| 40 | 34 | 34 | | | 37 | 13 | 36 | 38 | 11 | 33 | | 13 |
| 41 | 38 | 35 | | | 37 | 20 | 38 | 41 | 19 | 27 | | 10 |
| 42 | 39 | 36 | | | 37 | 12 | 39 | 36 | 11 | 33 | | 16 |
| 43 | 35 | 38 | | 7 | 40 | 10 | 35 | 42 | 10 | 36 | | 17 |
| 44 | 42 | 38 | | 8 | 40 | 10 | 42 | 42 | 10 | 25 | | 13 |
| 45 | 42 | 39 | 53 | 3 | 41 | 17 | 42 | 42 | 17 | 24 | 10 | 13 |
| 46 | 41 | 41 | . 54 | | 41 | 12 | 42 | 35 | 9 | 24 | 13 | 8 |
| 47 | 40 | 28 | 49 | 3 | 31 | 3 | 33 | 41 | 3 | 19 | 13 | 8 |
| 48 | 38 | 32 | 55 | 6 | 35 | 3 | 39 | 43 | 3 | 30 | 7 | 7 |
| 49 | 39 | 35 | 40 | 3 | 35 | 17 | 41 | 38 | 17 | 16 | 16 | 5 |
| 50 | 37 | 25 | 35 | 4 | 25 | 4 | 37 | 29 | 4 | 32 | 9 | 17 |
| 51 | 28 | 45 | | | 45 | 7 | 28 | 44 | 6 | 27 | | 11 |
| 52 | 46 | 39 | | | 39 | 16 | 46 | 41 | 15 | 27 | | 20 |
| 53 | 40 | 42 | | 3 | 42 | 20 | 40 | 29 | 19 | 9 | 11 | 8 |
| 54 | 30 | 25 | | 9 | 26 | 3 | 30 | 23 | 3 | | | 41 |
| 55 | 26 | 7 | | | 8 | 8 | 26 | 16 | 8 | | 22 | 13 |
| 56 | 19 | 36 | | 5 | 35 | 8 | 20 | 23 | 9 | | 3 | 26 |
| 57 | 23 | 3 | | | 3 | 4 | 23 | 7 | 4 | 13 | 3 | 3 |
| 58 | 6 | 3 | | | 3 | 6 | 6 | 5 | 6 | 5 | | 27 |
| 59 | 8 | 36 | | 7 | 36 | 17 | 9 | 29 | 17 | 12 | | 29 |
| 60 | 11 | 39 | | | 38 | 6 | 12 | 22 | 6 | | | 7 |
| 61 | 31 | 31 | . 54 | | 31 | 10 | 30 | 39 | 6 | | | 28 |
| 62 | 23 | 3 | | | 3 | 3 | 23 | 5 | 3 | | | 19 |
| 63 | 34 | 42 | | | 42 | 6 | 34 | 21 | 7 | 7 | | 15 |
| 64 | 6 | 47 | | | 48 | 24 | 6 | 39 | 24 | 6 | | 31 |
| 65 | 4 | 46 | | | 40 | 13 | 4 | 18 | 12 | 28 | | 17 |
| 66 | 24 | 46 | | | 47 | 7 | 22 | 21 | 7 | 28 | | 15 |
| 67 | 41 | 28 | | | 27 | 16 | 40 | 23 | 13 | | | 13 |
| 68 | 26 | 31 | | | 25 | 19 | 23 | 16 | 19 | 21 | 9 | 4 |
| 69 | 24 | 49 | | | 45 | 10 | 22 | 25 | 10 | | | 22 |
| 70 | 28 | 4 | | | 4 | 7 | 28 | 7 | 7 | 25 | | 26 |
| 71 | 19 | 54 | | | 42 | 6 | 18 | 33 | 6 | | | 12 |
| 72 | 28 | 51 | | | 43 | 8 | 27 | 21 | 7 | | | 21 |
| 73 | 5 | 19 | | | 14 | 9 | 5 | 11 | 5 | | | 18 |
| 74 | 26 | 34 | | | 30 | 8 | 25 | 16 | 8 | | | 18 |
| 75 | 22 | 46 | | 3 | 45 | 12 | 22 | 46 | 12 | 12 | | 17 |
| 76 | 11 | 51 | 5 | | 45 | 28 | 11 | 28 | 28 | 27 | 10 | 4 |
| 77 | 19 | 40 | 53 | 5 | 36 | 20 | 19 | 37 | 20 | 51 | 6 | 29 |

| 78 | 45 | | 4 | 43 | 6 | 4 | 23 | 45 | 4 | 22 | 8 | 41 | 16 | $\overline{}$ |
|-----|----|---|---|----|----|----|----|-------|-------|--------|-------|----|----|---------------|
| 79 | 28 | 4 | 6 | 37 | 4 | 45 | 10 | 28 | 21 | 10 | 26 | 10 | 14 | |
| 80 | 35 | | 9 | 4 | 12 | 34 | 16 | 35 | 38 | 16 | 7 | 20 | 3 | |
| 81 | 5 | | 5 | 3 | 4 | 23 | 9 | 6 | 18 | 9 | 31 | 4 | 4 | |
| 82 | 25 | | 4 | 54 | 3 | 4 | 8 | 24 | 3 | 8 | 8 | 6 | 29 | |
| 83 | 36 | | 3 | 45 | 5 | 3 | 9 | 36 | 6 | 12 | 19 | 41 | 15 | |
| 84 | 20 | 4 | 6 | 28 | 5 | 45 | 10 | 20 | 21 | 10 | 4 | 10 | 25 | |
| 85 | 5 | 3 | 9 | 4 | 4 | 34 | 16 | 5 | 38 | 16 | 8 | 12 | 3 | |
| 86 | 8 | 3 | 9 | 59 | 3 | 34 | 9 | 8 | 32 | 9 | 31 | 3 | 19 | |
| 87 | 25 | | 4 | 4 | 5 | 4 | 7 | 24 | 3 | 7 | 8 | 10 | 3 | |
| 88 | 36 | 3 | 7 | 44 | 5 | 40 | 6 | 36 | 23 | 6 | 27 | 4 | 27 | |
| 89 | 30 | | 3 | 46 | 8 | 4 | 14 | 30 | 3 | 13 | 4 | 23 | 30 | |
| 90 | 5 | 3 | 6 | 41 | 6 | 37 | 4 | 5 | 29 | 4 | 32 | 14 | 16 | |
| 91 | 24 | | 8 | 9 | 5 | 47 | 17 | 24 | 21 | 17 | 4 | 17 | 3 | |
| 92 | 4 | 2 | | 63 | 3 | 21 | 8 | 5 | 20 | 8 | 19 | 5 | 21 | |
| 93 | 31 | | 5 | 47 | 3 | 5 | 17 | 30 | 6 | 17 | 3 | 4 | 25 | |
| 94 | 3 | 3 | 4 | 63 | 3 | 33 | 9 | 3 | 32 | 8 | 44 | 15 | 32 | |
| 95 | 25 | | 6 | 76 | 4 | 46 | 6 | 25 | 46 | 6 | 11 | 21 | 22 | |
| 96 | 20 | | 8 | 4 | 3 | 51 | 15 | 20 | 24 | 14 | 10 | 20 | 3 | |
| 97 | 7 | 5 | | 4 | 3 | 42 | 7 | 8 | 28 | 7 | 19 | 4 | 3 | |
| 98 | 34 | | 3 | 6 | 4 | 3 | 15 | 34 | 3 | 15 | 33 | 4 | 5 | |
| 99 | 46 | | 3 | 4 | 4 | 4 | 7 | 46 | 6 | 7 | 44 | 6 | 5 | |
| 100 | 25 | | 5 | 8 | 3 | 6 | 10 | 24 | 6 | 10 | 30 | 5 | 4 | |
| 101 | 27 | | 3 | 6 | 4 | 3 | 6 | 25 | 4 | 6 | 6 | 5 | 5 | |
| 102 | 4 | | 5 | 5 | 4 | 5 | 12 | 4 | 5 | 9 | 6 | 5 | 5 | |
| 103 | 5 | | 5 | 5 | 4 | 5 | 4 | 5 | 5 | 4 | 5 | 5 | 5 | |
| 104 | 6 | | 5 | 5 | 4 | 5 | 10 | 6 | 5 | 9 | 4 | 5 | 4 | |
| 105 | 4 | | 5 | 5 | 5 | 5 | 3 | 4 | 3 | 3 | 5 | 3 | 3 | |
| 106 | 4 | | 5 | 4 | 4 | 5 | 3 | 4 | 5 | 3 | 5 | 4 | 5 | |
| 107 | 5 | | 5 | 3 | 4 | 4 | 3 | 5 | 4 | 3 | 5 | 5 | 5 | |
| 108 | 3 | | 3 | 4 | 3 | 3 | 7 | 3 | 3 | 5 | 3 | 9 | 4 | |
| 109 | 3 | | 3 | 6 | 4 | 3 | 3 | 3 | 4 | 3 | 5 | 6 | 5 | |
| 110 | 3 | | 5 | 4 | 6 | 5 | 6 | 3 | 5 | 10 | 9 | 7 | 4 | |
| 111 | 6 | | 5 | 4 | 5 | 7 | 5 | 6 | 3 | 5 | 4 | 3 | 4 | |
| 112 | 5 | | 4 | 5 | 5 | 4 | 6 | 5 | 5 | 8 | 5 | 12 | 4 | |
| 113 | 3 | | 5 | 6 | 6 | 5 | 11 | 3 | 6 | 15 | 5 | 5 | 3 | |
| 114 | 5 | | 5 | 5 | 4 | 5 | 12 | 5 | 6 | 11 | 4 | 3 | 3 | |
| 115 | 5 | | 5 | 6 | 3 | 5 | 12 | 5 | 3 | 10 | 5 | 4 | 3 | |
| 116 | 4 | | 4 | 4 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 117 | 5 | | 3 | 4 | 5 | 3 | 3 | 5 | 4 | 3 | 7 | 4 | 3 | |

| 118 | 5 | | 3 | 3 | 6 | 3 | 3 | 5 | 4 | 3 | 6 | 3 | 3 |
|------------|---------------|--|----------|----------|--|----------|----|----|----|----------|----------|-----------|----------|
| 119 | 5 | | 4 | 3 | 4 | 3 | 3 | 5 | 4 | 3 | 3 | 3 | 4 |
| 120 | 3 | | 3 | 5 | 4 | 3 | 5 | 3 | 4 | 4 | 4 | 3 | 5 |
| 121 | 3 | | 3 | 5 | 4 | 3 | 3 | 3 | 5 | 3 | 5 | 3 | 3 |
| 122 | 4 | | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 3 | 6 | 4 | 4 |
| 123 | 4 | | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 |
| 124 | 4 | | 3 | 4 | 4 | 3 | 3 | 4 | 5 | 5 | 5 | 6 | 3 |
| 125 | 4 | | 3 | 3 | 4 | 3 | 5 | 4 | 4 | 3 | 4 | 5 | 5 |
| 126 | 5 | | 3 | 5 | 3 | 3 | 10 | 5 | 3 | 3 | 4 | 4 | 5 |
| 127 | 4 | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 5 | 13 | 5 |
| 128 | 4 | | 3 | 3 | 5 | 3 | 3 | 4 | 3 | 5 | 3 | 4 | 3 |
| 129 | 5 | | 4 | 4 | 4 | 4 | 11 | 5 | 4 | 4 | 4 | 4 | 4 |
| 130 | 4 | | 5 | 4 | 3 | 5 | 5 | 4 | 3 | 5 | 3 | 4 | 3 |
| 131 | 3 | | 5 | 6 | 3 | 5 | 5 | 3 | 7 | 8 | 4 | 5 | 3 |
| 132 | 4 | | 4 | 4 | 5 | 4 | 7 | 4 | 3 | 3 | 3 | 5 | 3 |
| 133 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 10 | 5 | 5 | 11 |
| 134 | 4 | | 3 | 3 | 4 | 3 | 6 | 4 | 5 | 3 | 5 | 3 | 9 |
| 135 | 3 | | 4 | 4 | 4 | 4 | 3 | 3 | 5 | 3 | 5 | 4 | 11 |
| 136 | 5 | | 5 | 3 | 3 | 5 | 4 | 5 | 4 | 3 | 4 | 6 | 16 |
| 137 | 3 | | 5 | 4 | 3 | 5 | 4 | 3 | 3 | 3 | 3 | 4 | 3 |
| 138 | 4 | | 5 | 4 | 6 | 5 | 10 | 4 | 5 | 3 | 3 | 4 | 8 |
| 139 | 4 | | 3 | 5 | | 3 | 3 | 4 | 6 | 7 | 13 | 4 | 11 |
| 140 | 5 | | 3 | 6 | | 4 | 3 | 5 | 3 | 7 | 19 | 4 | 15 |
| 141 | 3 | | 4 | 4 | | 4 | 5 | 3 | 3 | 3 | 19 | 4 | 9 |
| 142 | 5 | | 3 | 4 | | 3 | 5 | 5 | 3 | 10 | 21 | 19 | 8 |
| 143 | 3 | | 3 | 3 | | 3 | 4 | 3 | 3 | 11 | 3 | 11 | 11 |
| 144 | 5 | | 3 | 3 | | 3 | 10 | 5 | 21 | 7 | 11 | 13 | 16 |
| 145 | 5 | | 15 | 4 | | 3 | 10 | 5 | 16 | 13 | 5 | 12 | 7 |
| 146 | 3 | | 11 | 4 | | 3 | 7 | 3 | 17 | 3 | 6 | 4 | 7 |
| 147 | 3 | | 14 | 4 | | 18 11 | 12 | 3 | 29 | 12 | 19 | 4 | 10 |
| 148 149 | 3 | | 23 12 | 17 13 | | 15 | 3 | 21 | 3 | 11 10 | 14 19 | 9 | 13 11 |
| | 21 | | 17 | | | 25 | 12 | 14 | 22 | 11 | | | |
| 150 151 | 14 | | 19 | 19 23 | | 12 | 11 | 18 | 21 | 9 | 21 | 19 11 | 6 |
| 152 | 18 | | 19 | 3 | | 20 | 10 | 29 | 21 | 7 | 6 10 | 9 | 3 |
| 153 | 29 | | 9 | 5 | + + | 22 | 10 | 4 | 16 | 13 | 8 | 13 | 12 |
| 153 | <u>29</u> | | 14 | 14 | + + | 11 | 10 | 3 | 14 | 11 | 12 | 12 | 6 |
| 155 | 3 | | 23 | 19 | + + | 9 | 7 | 21 | 17 | 10 | 13 | 15 | 5 |
| 156 | 21 | | 13 | 19 | | 15 | 12 | 21 | 29 | 11 | 16 | 12 | 11 |
| 157 | 21 | | 15 | 13 | + + + | 25 | 11 | 20 | 26 | 11 | 4 | 22 | 12 |
| T21 | $\angle \bot$ | | TO | 13 | | 25 | TT | 20 | 20 | TT | 4 | LL | 12 |

| 158 | 20 | 21 | | 8 | | 15 | | 11 | 14 | | 26 | 10 | 4 | 23 | 11 | |
|------------|----------|---------|--|----------|---|--------------|----------------|--------|----------|---|----------|--------|----------|----------|----|----------|
| 159 | 14 | 21 | | 19 | | 15 | | 11 | 14 | | 26 | 11 | 3 | 17 | 6 | |
| 160 | 14 | 15 | | 23 | | 23 | | 11 | 18 | | 26 | 3 | 27 | 12 | 12 | |
| 161 | 18 | 9 | | 21 | | 23 | | 10 | 29 | | 17 | 4 | 10 | 3 | 8 | - |
| 162 | 29 | 3 | | 23 | | 15 | | 11 | 23 | | 17 | 8 | 3 | 3 | 7 | |
| 163 | 23 | 3 | | 22 | | 9 | | 3 | 25 | | 25 | 6 | 13 | 3 | 7 | |
| 164 | 25 | 3 | | 22 | | 3 | | 4 | 25 | | 20 | 11 | 11 | 26 | 9 | |
| 165 | 25 | 3 | | 16 | | 3 | | 9 | 26 | | 7 | 14 | 10 | 18 | 12 | |
| 166 | 26 | 15 | | 13 | | 3 | | 6 | 17 | | 17 | 21 | 17 | 8 | 18 | |
| 167 | 17 | 13 | | 3 | | 3 | | 10 | 16 | | 26 | 9 | 17 | 21 | 5 | |
| 168 | 16 | 5 | | 3 | | 19 | | 15 | 26 | | 29 | 8 | 14 | 18 | 11 | |
| 169 | 26 | 14 | | 4 | | 13 | | 21 | 19 | | 19 | 10 | 8 | 20 | 9 | |
| 170 | 19 | 19 | | 19 | | 5 | | 8 | 7 | | 22 | 4 | 7 | 16 | 10 | |
| 171 | 7 | 20 | | 19 | | 15 | | 8 | 18 | | 20 | 9 | 11 | 10 | 7 | |
| 172 | 18 | 11 | | 6 | | 21 | | 11 | 28 | | 16 | 10 | 3 | 13 | 3 | |
| 173 | 28 | 15 | | 16 | | 23 | | 4 | 29 | | 12 | 13 | 4 | 7 | 6 | |
| 174 | 29 | 12 | | 30 | | 12 | | 9 | 18 | | 17 | 15 | 8 | 8 | 7 | |
| 175 | 18 | 13 | | 29 | | 16 | | 10 | 25 | | 5 | 8 | 5 | 15 | 7 | |
| 176 | 25 | 9 | | 17 | | 13 | | 13 | 19 | | 4 | 7 | 5 | 3 | 7 | |
| 177 | 19 | 9 | | 13 | | 13 | | 15 | 14 | | 18 | 6 | 15 | 4 | 7 | |
| 178 | 14 | 14 | | 16 | | 12 | | 9 | 13 | | 21 | 8 | 17 | 13 | 11 | |
| 179 | 13 | 19 | | 16 | | 13 | | 6 | 18 | | 19 | 11 | 14 | 13 | | |
| 180 | 18 | 11 | | 14 | | 18 | | 7 | 4 | | 16 | 7 | 17 | 12 | | |
| 181 | 4 | 13 | | 20 | | 20 | | 8 | 4 | - | 17 | 9 | 3 | 14 | | |
| 182 | 4 | 10 | | 6 | | 12 | | 11 | 18 | | 13 | 17 | 10 17 | 13 | | |
| 183 | 18 | 12 9 | | 5 | | 15 | | 8 9 | 21 | | 18 | 6 | | 12 14 | | |
| 184 185 | 21 19 | 12 | | 18 18 | | 12 13 | | 17 | 19 17 | | 21 20 | 6 7 | 10 11 | 3 | | |
| 186 | 19 | 10 | | 16 | | 10 | - | 6 | 16 | | 19 | 1 | 11 | 20 | | |
| 187 | 16 | 8 | | 20 | | 13 | | 6 | 15 | | 23 | | 19 | 8 | | |
| 188 | 15 | 16 | | 14 | | 10 | | 7 | 18 | | 16 | | 19 | 10 | | |
| 189 | 18 | 14 | | 17 | | 8 | -+ | - ' | 20 | | 20 | 1 | | 22 | + | |
| 190 | 20 | 14 | | 16 | | 19 | | | 19 | | 20 | | | 12 | | |
| 191 | 19 | 14 | | 19 | 1 | 13 | | | 19 | | | | | 21 | | |
| 192 | 19 | | | 15 | | 15 | | | 23 | | | | | | | |
| 193 | 23 | | | 10 | | 10 | - | + | 17 | | + | + | | | | \dashv |
| 194 | 17 | | | 21 | | | <u> </u> | | 20 | | | | | | 1 | \neg |
| 195 | 20 | | | 16 | | | | | | | | | | | | |
| 196 | | | | 17 | | | | | | | | | | | | |

The values of k when they exceed r (2-bug, 10 EFFs)

| | FFF10-8 | 3 (144) | FFF7-3 | 4 (146) | FFF11- | | | | | - | | (2 - Du) 42 (159) | EFF5-9 | | FFF11- | 8 (172) | EFF3-14 | 19 (159) | EFF4-3 | 8 (138) |
|----------|---------|---------|--------|---------|----------|---|--------|--------|--------|---|---------|----------------------|--------|-------|---------|---------|---------|----------|----------|---------|
| | k>r | k < r | k > r | k < r | k > r | | k > r | | k > r | | k > r | k < r | k>r | k < r | k > r | k < r | | k < r | k > r | k < r |
| 1 | 3 | 1 | 7 | 1 | 7 | 1 | 4 | 1 | 3 | 1 | 3 | 1 | 4 | 1 | 3 | 1 | 3 | 1 | 4 | 1 |
| 2 | 5 | 1 | 3 | | 8 | 1 | 10 | 1 | 6 | 1 | 6 | 1 | 3 | 1 | 10 | 1 | 3 | 1 | 5 | 1 |
| 3 | 3 | 1 | 4 | | 11 | 1 | 5 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 5 | 1 | 3 | 1 | 5 | 1 |
| 4 | 3 | 1 | 9 | | 9 | 1 | 9 | 1 | 3 | 1 | 9 | 1 | 11 | 1 | 3 | 1 | 9 | 1 | 3 | 1 |
| 5 | 7 | 1 | 11 | | 3 | 1 | 3 | 1 | 6 | 1 | 3 | 1 | 3 | 1 | 8 | 1 | 3 | 1 | 9 | 1 |
| 6 | 3 | 1 | 9 | | 4 | 1 | 10 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 5 | 1 | 4 | 1 | 5 | 1 |
| 7 | 3 | 1 | 3 | | 10 | 1 | 5 | 1 | 3 | 1 | 5 | 1 | 5 | 1 | 3 | 1 | 9 | 1 | 6 | 1 |
| 8 | 3 | 1 | 3 | | 19 | 1 | 5 | 1 | 3 | 1 | 5 | 1 | 10 | 1 | 7 | 1 | 10 | 1 | 3 | 1 |
| 9 | 3 | 1 | 3 | | 3 | 1 | 10 | 1 | 7 | 1 | 6 | 1 | 9 | 1 | 7 | 1 | 8 | 1 | 3 | 1 |
| 10 | 3 | 1 | 10 | | 10 | 1 | 7 | 1 | 10 | 1 | 3 | 1 | 7 | 1 | 5 | 1 | 6 | 1 | 4 | 1 |
| 11 | 4 | 1 | 9 | | 10 | 1 | 5 | 1 | 5 | 1 | 8 | 1 | 9 | 1 | 4 | 1 | 4 | 1 | 10 | 1 |
| 12 | 3 | 1 | 13 | | 13 | 1 | 8 | 1 | 4 | 1 | 5 | 1 | 5 | 1 | 3 | 1 | 4 | 1 | 3 | 1 |
| 13 | 3 | 1 | 3 | | 6 | 1 | 3 | 1 | 3 | 1 | 4 | 1 | 5 | | 3 | 1 | 6 | 1 | 3 | 1 |
| 14 | 3 | 1 | 5 | | 3 | | 6 | 1 | 3 | 1 | 3 | 1 | 6 | | 4 | 1 | 8 | 1 | 5 | |
| 15 | 5 | 1 | 5 | | 3 | | 3 | 1 | 6 | 1 | 3 | 1 | 7 | | 4 | 1 | 8 | 1 | 4 | |
| 16 | 4 | 1 | 11 | | 5 | | 9 | 1 | 8 | 1 | 5 | 1 | 9 | | 5 | 1 | 4 | 1 | 8 | |
| 17 | 4 | 1 | 5 | | 4 | | 5 | 1 | 10 | 1 | 5 | 1 | 6 | | 5 | 1 | 4 | 1 | 3 | |
| 18 | 7 | 1 | 3 | | 7 | | 5 | 1 | 4 | | 6 | 1 | 4 | | 8 | | 4 | 1 | 17 | |
| 19 | 3 | 1 | 4 | | 10 | | 9 | 1 | 6 | | 5 | 1 | 4 | | 5 | | 5 | 1 | 3 | |
| 20 | 3 | 1 | 5 | | 23 | | 3 | 1 | 6 | | 4 | 1 | 4 | | 8 | | 4 | 1 | 5 | |
| 21 | 3 | 1 | 4 | | 4 | | 5 | 1 | 9 | | 12 | 1 | 4 | | 8 | | 3 | | 5 | |
| 22 | 7 | 1 | 8 | | 6 | | 3 | 1 | 3 | | 4 | | 6 | | 21 | | 6 | | 11 | |
| 23 | 3 | 1 | 12 | | 12 | | 5 | 1 | 3 | | 6 | | 5 | | 3 | | 3 | | 10 | |
| 24 | 3 | 1 | 5 | | 7 | | 9 | 1 | 6 | | 5 | | 3 | | 5 | | 4 | | 16 | |
| 25 | 3 | 1 | 6 | | <u>6</u> | | 9 | 1 | 10 | | 3 | | 10 | | 4 | | 3 | | 5 | |
| 26 | 3 | | 8 | | | | 4 7 | 1 | 5 9 | | 3 | | 5 | | 6 | | 9 | | 4 | |
| 27 28 | 4 | | 10 | | <u>4</u> | | 3 | 1 1 | 10 | | 11 7 | | 3 | | 5 11 | | 5 7 | | <u>5</u> | |
| 29 | 4 | | 3 | | 6 | | 6 | 1 | 6 | | 3 | | 3 | | 11 | | 6 | | 10 | |
| 30 | 4 | | 3 | | 8 | | 3 | 1 | 3 | | 3 | | 10 | | 10 | | 8 | | 4 | |
| 31 | 5 | | 7 | | 16 | | 7 | 1 | 4 | | 3 | | 6 | | 3 | | 5 | | 7 | |
| 32 | 3 | | 4 | | 3 | | 3 | 1 | 3 | | 3 | | 3 | | 3 | | 6 | | 12 | |
| 33 | 4 | | 6 | | 8 | | 3 | 1 | 6 | | 3 | | 4 | | 5 | | 5 | | 12 | |
| 34 | 3 | | 6 | | 4 | | 7 | 1 | 7 | | 4 | | 3 | | 11 | | 4 | | 5 | |
| 35 | 5 | | 5 | | 6 | | 4 | 1 | 3 | | 4 | | 6 | | 11 | | 4 | | 19 | |
| 36 | 4 | | 6 | | 14 | | 6 | 1 | 3 | | 4 | | 6 | | 4 | | 5 | | 6 | |
| 37 | 3 | | 5 | | 24 | | 9 | 1 | 6 | | 4 | | 6 | | 3 | | 4 | | 12 | |

| | | | | | | | | <u> </u> | | 1.01 |
|----|---|----|----|------|---|---|----|----------|----|------|
| 38 | 4 | 3 | 6 | 8 1 | 4 | 5 | 6 | 4 | | 18 |
| 39 | 4 | 5 | 9 | 5 1 | 5 | 3 | 6 | 3 | | 3 |
| 40 | 3 | 12 | 6 | 11 1 | 3 | 9 | 4 | 4 | 8 | 9 |
| 41 | 4 | 4 | 8 | 4 | 6 | 3 | 9 | 22 | 13 | 18 |
| 42 | 4 | 4 | 3 | 7 | 6 | 6 | 3 | 4 | 3 | 13 |
| 43 | 3 | 4 | 4 | 3 | 5 | 4 | 7 | 4 | 7 | 7 |
| 44 | 3 | 4 | 26 | 3 | 8 | 4 | 3 | 7 | 3 | 18 |
| 45 | 3 | 7 | 3 | 7 | 4 | 3 | 7 | 4 | 5 | 7 |
| 46 | 3 | 4 | 4 | 4 | 4 | 8 | 8 | 5 | | 10 |
| 47 | 3 | 4 | 12 | 4 | 3 | 9 | 3 | 3 | | 7 |
| 48 | 3 | 9 | 3 | 3 | 5 | 4 | 15 | 7 | | 20 |
| 49 | 3 | 4 | 3 | 3 | 5 | 6 | 3 | 5 | | 20 |
| 50 | 4 | 11 | 3 | 6 | 3 | 6 | 3 | | 15 | 27 |
| 51 | 4 | 4 | 10 | 4 | 4 | 4 | 7 | 14 | 8 | 14 |
| 52 | 3 | 3 | 25 | 5 | 3 | 5 | 3 | 5 | | 19 |
| 53 | 3 | 10 | 5 | 3 | 7 | 5 | 10 | 5 | | 22 |
| 54 | 4 | 4 | 3 | 3 | 8 | 3 | 3 | 3 | | 14 |
| 55 | 4 | 3 | 9 | 3 | 7 | 3 | 4 | 5 | 5 | 19 |
| 56 | 3 | 6 | 4 | 4 | 5 | 5 | 6 | 8 | | 21 |
| 57 | 3 | 9 | 4 | 3 | 3 | 3 | 5 | 5 | 7 | 5 |
| 58 | 4 | 4 | 3 | 9 | 5 | 6 | 4 | 6 | 3 | 14 |
| 59 | 3 | 3 | 6 | 5 | 5 | 8 | 5 | 3 | 5 | 23 |
| 60 | 4 | 6 | 7 | 6 | 7 | 4 | 5 | 11 | 3 | 8 |
| 61 | 4 | 4 | 5 | 6 | 8 | 4 | 7 | 15 | 5 | 20 |
| 62 | 3 | 8 | 5 | 5 | 4 | 5 | 12 | 7 | 14 | 19 |
| 63 | 3 | 5 | 8 | 3 | 4 | 8 | 6 | 7 | 3 | 12 |
| 64 | 4 | 5 | 3 | 3 | 4 | 5 | 5 | 7 | 5 | 4 |
| 65 | 3 | 18 | 13 | 3 | 7 | 5 | 16 | 4 | 4 | 3 |
| 66 | 5 | 3 | 3 | 5 | 6 | 4 | 5 | 9 | 3 | 3 |
| 67 | 4 | 5 | 3 | 3 | 5 | 4 | 4 | 14 | 7 | 5 |
| 68 | 4 | 3 | 5 | 3 | 5 | 3 | 3 | 13 | 3 | 3 |
| 69 | 5 | 8 | 4 | 3 | 6 | 4 | 6 | 11 | 6 | 3 |
| 70 | 5 | 10 | 3 | 5 | 6 | 6 | 11 | 25 | 9 | 3 |
| 71 | 5 | 3 | 3 | 3 | 8 | 3 | 9 | 4 | 6 | 5 |
| 72 | 5 | 6 | 4 | 3 | 3 | 4 | 3 | 26 | 14 | 3 |
| 73 | 4 | 5 | 6 | 3 | 6 | 4 | 5 | 7 | 6 | 4 |
| 74 | 5 | 4 | 3 | 4 | 5 | 4 | 6 | 16 | 4 | 6 |
| 75 | 3 | 4 | 3 | 4 | 3 | 8 | 11 | 5 | 4 | 5 |
| 76 | 4 | 3 | 3 | 5 | 4 | 3 | 13 | 3 | 5 | 3 |
| 77 | 5 | 3 | 6 | 3 | 6 | 5 | 3 | | | |

| 78 | 3 | 4 | 3 | 9 | 5 | 3 | 7 | 16 | 5 | 3 |
|-----|---|----|----|----|---|---|----------|-------------|---|-------------|
| 79 | 3 | 4 | 4 | 3 | 9 | 5 | 3 | | 5 | |
| 80 | 3 | 6 | 4 | 3 | 3 | 5 | 3 | | 5 | |
| | 3 | | | | | 5 | | | | 3 |
| 81 | 4 | 5 | 3 | 3 | 8 | 5 | <u>3</u> | | | 7 |
| 82 | | | 3 | 3 | 5 | | | | | |
| 83 | 3 | 4 | 3 | 3 | 3 | 6 | 16 | | | |
| 84 | 5 | 3 | 4 | 3 | 4 | 9 | 4 | | | |
| 85 | 3 | 4 | 3 | 6 | 5 | 5 | 13 | | 3 | |
| 86 | 4 | 3 | 6 | 4 | 3 | 6 | 7 | | 3 | |
| 87 | 5 | 3 | 9 | 6 | 5 | 4 | 8 | | 4 | 6 |
| 88 | 4 | 6 | 7 | 5 | 5 | 5 | 5 | | | |
| 89 | 5 | 3 | 3 | 7 | 5 | 3 | 3 | | | |
| 90 | 3 | 4 | 3 | 10 | 5 | 4 | 4 | | | |
| 91 | 3 | 4 | 16 | 6 | 6 | 3 | 5 | | | |
| 92 | 3 | 3 | 18 | 5 | 4 | 3 | 3 | | | |
| 93 | 3 | 3 | 20 | 3 | 5 | 4 | 5 | | | 10 |
| 94 | 3 | 3 | 9 | 7 | 5 | 4 | 4 | | | 12 |
| 95 | 3 | 3 | 9 | 6 | 4 | 5 | 4 | | | 14 |
| 96 | 3 | 3 | 7 | 3 | 5 | 3 | 5 | | | 13 |
| 97 | 4 | 3 | 3 | 6 | 4 | 4 | 9 | | | 10 |
| 98 | 3 | 3 | 11 | 3 | 3 | 4 | 4 | | | 6 |
| 99 | 3 | 4 | 5 | 4 | 4 | 4 | 5 | | | |
| 100 | 3 | 3 | 12 | 8 | 3 | 4 | 5 | | | 9 |
| 101 | 3 | 3 | 6 | | 3 | 5 | 4 | | | 4 |
| 102 | 3 | 9 | 5 | | 4 | 5 | 5 | | | 9 |
| 103 | 3 | 6 | 5 | | 4 | 5 | 4 | 3 | | 4 |
| 104 | 3 | 6 | 3 | | 5 | 5 | 3 | 4 | 5 | 4 |
| 105 | 3 | 4 | 8 | | 4 | 5 | 4 | 4 | 4 | 15 |
| 106 | 3 | 3 | 3 | | 4 | 5 | 3 | 5 | 3 | 3 |
| 107 | 3 | 3 | 17 | | 4 | 6 | 3 | | | 6 |
| 108 | 3 | 8 | 10 | | 4 | 5 | 3 | | | |
| 109 | 3 | 12 | 11 | | 3 | 3 | 4 | 3 | 5 | 6 |
| 110 | 4 | 15 | 4 | | 5 | 3 | 4 | 4 | 5 | 6 |
| 111 | 3 | 6 | 5 | | 5 | 4 | 5 | 5 | 7 | 4 |
| 112 | 3 | 5 | 3 | | 5 | 6 | 4 | | | 3 |
| 113 | 3 | 6 | 5 | | 4 | 5 | 4 | | | 9 |
| 114 | 3 | 4 | 11 | | 3 | 5 | 4 | | | |
| 115 | 4 | 12 | 8 | | 3 | 3 | 4 | | 6 | 4 |
| 116 | 3 | 7 | 4 | | 6 | 3 | 3 | | 4 | 8 |
| 117 | 4 | 8 | 4 | | 6 | 3 | 5 | | | |

| 118 | 3 | 6 | 6 | | 5 | 3 | 5 | 3 | 4 | 6 | |
|-----|---|----|---|--|----|---|----|----|---|---|--|
| 119 | 3 | 6 | 3 | | 3 | 3 | 5 | 4 | 5 | 4 | |
| 120 | | 8 | 5 | | 5 | 5 | 3 | 5 | 7 | 5 | |
| 121 | | 7 | 3 | | 5 | 3 | 4 | 4 | 3 | 5 | |
| 122 | | 4 | 4 | | 3 | 3 | 3 | 4 | 3 | 7 | |
| 123 | | 6 | 5 | | 3 | 3 | 3 | 7 | 3 | 3 | |
| 124 | | 7 | | | 4 | 3 | 11 | 6 | 3 | 8 | |
| 125 | | 10 | | | 6 | 4 | 8 | 8 | 3 | 4 | |
| 126 | | 14 | | | 6 | 3 | 9 | 3 | 4 | | |
| 127 | | 8 | | | 5 | 3 | 5 | 5 | 4 | | |
| 128 | | 5 | | | 3 | 3 | 4 | 5 | 3 | | |
| 129 | | 5 | | | 8 | 3 | 4 | 6 | 4 | | |
| 130 | | 4 | | | 6 | 3 | 8 | 5 | 4 | | |
| 131 | | 5 | | | 5 | 3 | 6 | 7 | 7 | | |
| 132 | | 4 | | | 5 | 3 | 8 | 7 | 4 | | |
| 133 | | 6 | | | 6 | 7 | 8 | 3 | 5 | | |
| 134 | | 5 | | | 8 | 5 | 5 | 8 | 4 | | |
| 135 | | 5 | | | 3 | 4 | 9 | 5 | 4 | | |
| 136 | | 5 | | | 3 | 4 | 5 | 7 | 3 | | |
| 137 | | 7 | | | 6 | 3 | 10 | 11 | 5 | | |
| 138 | | 9 | | | 7 | 3 | 5 | 5 | 4 | | |
| 139 | | 3 | | | 4 | | 7 | 5 | 3 | | |
| 140 | | 7 | | | 12 | | 7 | 6 | | | |
| 141 | | 10 | | | 8 | | 9 | 3 | | | |
| 142 | | 23 | | | 5 | | 10 | 5 | | | |
| 143 | | 5 | | | 6 | | 3 | 5 | | | |
| 144 | | 7 | | | 6 | | 6 | 3 | | | |
| 145 | | 7 | | | 4 | | 4 | 3 | | | |
| 146 | | | | | 4 | | 8 | 7 | | | |
| 147 | | | | | 3 | | 9 | 9 | | | |
| 148 | | | | | 3 | | 14 | 5 | | | |
| 149 | | | | | 3 | | 19 | 5 | | | |
| 150 | | | | | 6 | | 14 | 4 | | | |
| 151 | | | | | 6 | | 7 | 8 | | | |
| 152 | | | | | 3 | | 7 | 6 | | | |
| 153 | | | | | 5 | | 8 | 11 | | | |
| 154 | | | | | 3 | | 4 | 7 | | | |
| 155 | | | | | 6 | | 4 | 7 | | | |
| 156 | | | | | 8 | | 6 | | | | |
| 157 | | | | | 15 | | 5 | | | | |

| 158 | | | | | 3 | | | | 6 | | | |
|-----|--|--|--|--|---|---|---|---|----|--|--|--|
| 159 | | | | | 8 | | | | 7 | | | |
| 160 | | | | | 8 | | | | 9 | | | |
| 161 | | | | | | | | | 5 | | | |
| 162 | | | | | | | | | 7 | | | |
| 163 | | | | | | | | | 3 | | | |
| 164 | | | | | | | | | 6 | | | |
| 165 | | | | | | | | | 11 | | | |
| 166 | | | | | | | | | 13 | | | |
| 167 | | | | | | | | | 4 | | | |
| 168 | | | | | | | | | 10 | | | |
| 169 | | | | | | - | - | - | 9 | | | |

The values of k when they exceed r (3-bug, 12 groups of REFs)

| | Group | 1 (174) | Group | 2 (169) | Group | 3 (188) | | 4 (175) | Group | 5 (164) | Group | | Group | | | 08 (182) | Group | 9 (172) | Group1 | LO (184) | Group1 | 1 (180) | Group1 | 2 (170) |
|----|-------|---------|-------|---------|-------|---------|-----|---------|-------|---------|-------|-------|-------|-------|-----|----------|-------|---------|--------|----------|--------|---------|--------|---------|
| | k>r | k < r | k > r | k < r | k>r | k < r | k>r | k < r | k > r | k < r | k>r | k < r | k>r | k < r | k>r | k < r | k>r | k < r | k > r | k < r | k > r | k < r | k > r | k < r |
| 1 | 49 | 2 | 43 | 1 | 50 | 1 | 12 | | 45 | 2 | 11 | 2 | 50 | 2 | 54 | 2 | 11 | 2 | 19 | 2 | 9 | 2 | 13 | 2 |
| 2 | 49 | 2 | 43 | 1 | 51 | 1 | 12 | | 45 | 1 | 11 | 2 | 50 | 2 | 54 | 1 | 11 | 2 | 19 | 2 | 9 | 1 | 13 | 2 |
| 3 | 47 | 2 | 39 | 1 | 44 | 2 | 6 | | 44 | 1 | 11 | 2 | 47 | 2 | 47 | 1 | 11 | 2 | 14 | 2 | 12 | 1 | 12 | 2 |
| 4 | 42 | 2 | 42 | 2 | 48 | 2 | 6 | | 43 | 2 | 6 | 2 | 42 | 2 | 42 | 1 | 6 | 2 | 27 | 2 | 8 | 2 | 10 | 2 |
| 5 | 45 | 2 | 39 | 2 | 57 | 2 | 8 | | 40 | 2 | 17 | 2 | 45 | 2 | 45 | 2 | 17 | 2 | 27 | 1 | 20 | 1 | 14 | 2 |
| 6 | 39 | 2 | 45 | 2 | 50 | 1 | 4 | 2 | 43 | 2 | 16 | 2 | 33 | 2 | 34 | 2 | 16 | 2 | 36 | 1 | 26 | | 16 | 2 |
| 7 | 42 | 2 | 38 | 2 | 52 | 2 | 7 | 1 | 38 | 2 | 7 | 2 | 40 | 2 | 39 | 2 | 7 | 2 | 18 | 1 | 15 | | 21 | 2 |
| 8 | 40 | 2 | 36 | 2 | 50 | 1 | 8 | 2 | 36 | 2 | 21 | 1 | 41 | 2 | 40 | 2 | 20 | 1 | 27 | 1 | 15 | | 14 | 2 |
| 9 | 38 | | 33 | 2 | 41 | 2 | 6 | 2 | 36 | 2 | 19 | 2 | 38 | | 38 | 2 | 18 | 2 | 21 | 2 | 16 | | 14 | 2 |
| 10 | 47 | | 40 | 2 | 57 | 2 | 6 | 2 | 41 | 2 | 23 | 2 | 47 | | 49 | 2 | 22 | 2 | 31 | 1 | 17 | | 16 | 2 |
| 11 | 51 | | 38 | 2 | 44 | 2 | 8 | | 40 | 2 | 37 | 2 | 48 | | 51 | 2 | 35 | 1 | 32 | 1 | 27 | | 14 | 2 |
| 12 | 42 | | 40 | 2 | 43 | | 9 | | 40 | 2 | 8 | 2 | 42 | | 43 | | | 2 | 21 | 2 | 13 | | 12 | 2 |
| 13 | 40 | | 38 | 2 | 45 | | 9 | 2 | 39 | 2 | 13 | 2 | 38 | | 39 | | | 2 | 31 | 2 | 12 | | 28 | 2 |
| 14 | 37 | | 36 | 2 | 44 | | 9 | | 36 | 2 | 20 | 2 | 38 | | 38 | | 20 | 2 | 31 | 2 | 16 | | 22 | 2 |
| 15 | 34 | | 32 | 2 | 43 | | 9 | | 32 | 2 | 9 | 2 | 36 | | 36 | 2 | | 2 | 37 | | 10 | | 20 | 2 |
| 16 | 44 | | 43 | 2 | 51 | | 4 | _ | 43 | 2 | 14 | | 43 | | 44 | 2 | - | 2 | 26 | | 11 | | 10 | 2 |
| 17 | 47 | | 43 | 2 | 52 | | 15 | | 45 | 2 | 14 | | 49 | | 52 | | 14 | 2 | 22 | | 9 | | 13 | 2 |
| 18 | 39 | | 38 | 2 | 44 | | 6 | | 37 | 2 | 6 | | 38 | | 38 | | 7 | 2 | 28 | | 5 | | 13 | 2 |
| 19 | 25 | | 40 | 2 | 43 | | 7 | | 40 | | 13 | | 22 | | 22 | | 10 | 2 | 28 | | 7 | | 16 | 2 |
| 20 | 43 | | 40 | 2 | 48 | | 11 | | 41 | | 10 | | 42 | | 45 | | 9 | 2 | 19 | | 16 | | 17 | 2 |
| 21 | 46 | | 42 | 2 | 48 | | 6 | | 42 | | 12 | | 43 | | 47 | | 12 | | 24 | | 14 | | 11 | 2 |
| 22 | 44 | | 36 | | 47 | | 8 | | 40 | | 12 | | 43 | | 43 | | 12 | | 24 | | 17 | | 18 | 2 |
| 23 | 45 | | 41 | | 48 | | 12 | | 41 | | 13 | | 43 | | 48 | | 12 | | 25 | | 20 | | 16 | 2 |
| 24 | 5 | | 35 | | 4 | | 8 | | 36 | | 8 | | 4 | | 37 | | 8 | | 8 | | 8 | | 6 | 2 |
| 25 | 37 | | 35 | | 44 | | 5 | | 36 | | 8 | | 37 | | 39 | | 7 | | 37 | | 15 | | 21 | 2 |
| 26 | 39 | | 38 | | 45 | | 5 | | 38 | | 8 | | 39 | | 39 | | 8 | | 18 | | 6 | | 6 | 2 |
| 27 | 39 | | 28 | | 57 | | 4 | | 37 | | 6 | | 39 | | 37 | | 6 | | 20 | | 14 | | 8 | 2 |
| 28 | 38 | | 37 | | 32 | | 4 | | 38 | | 5 | | 38 | | 43 | | 5 | | 33 | | 12 | | 8 | |
| 29 | 43 | | 34 | | 47 | | 5 | | 35 | | 9 | | 43 | | 33 | | 4 | | 31 | | 6 | | 10 | |
| 30 | 34 | | 34 | | 37 | | 4 | | 34 | | 10 | | 33 | | 37 | | 10 | | 41 | | 5 | | 14 | |
| 31 | 37 | | 33 | | 59 | | 7 | | 34 | | 6 | | 37 | | 38 | | 6 | | 16 | | 5 | | 6 | |
| 32 | 38 | | 40 | | 39 | | 5 | | 41 | | 8 | | 38 | | 44 | | 8 | | 27 | | 7 | | 9 | |
| 33 | 4 | | 39 | | 59 | | 6 | | 40 | | 4 | | 4 | | 44 | | 4 | | 16 | | 20 | | 5 | |
| 34 | 44 | | 37 | | 42 | | 6 | | 39 | | 8 | | 44 | | 40 | | 8 | | 28 | | 22 | | 12 | |
| 35 | 45 | | 39 | | 46 | | 5 | | 38 | | 13 | | 45 | | 39 | | 12 | | 27 | | 6 | | 17 | |
| 36 | 39 | | 36 | | 38 | | 5 | 2 | 38 | | / | | 37 | | 42 | | / | | 42 | | 19 | | 11 | |

| 37 | 40 | 33 | 3 42 | | 7 | 1 39 | | 10 | 38 | | 38 | | 9 | Ī | 24 | 10 | 14 | |
|----------|----------|----|------|---|---------------|----------|-----|----|----------|---|----------------|---|----------|---|------------|---------|----|---------------|
| 38 | 42 | 34 | | | 10 | 2 35 | | 6 | 42 | | 36 | | 6 | | 39 | 11 | 13 | $\overline{}$ |
| 39 | 38 | 36 | | | 5 | 2 38 | | 4 | 38 | | 41 | | 6 | | 24 | 22 | 28 | |
| 40 | 36 | 39 | | | 5 | 1 44 | | 6 | 36 | | 45 | | 15 | | 21 | 14 | 15 | |
| 41 | 41 | 43 | | | 6 | 2 44 | | 15 | 41 | | 44 | | 15 | | 35 | 23 | 12 | |
| 42 | 47 | 32 | | | 7 | 1 34 | | 17 | 48 | | 41 | | 5 | | 31 | 20 | 25 | |
| 43 | 44 | 35 | | | 8 | 2 42 | | 7 | 43 | | 48 | | 8 | | 27 | 11 | 6 | - |
| 44 | 38 | 36 | 3 41 | L | 5 | 1 38 | | 8 | 40 | | 41 | | 31 | | 17 | 12 | 15 | |
| 45 | 50 | 39 | 59 |) | 9 | 1 43 | | 31 | 48 | | 36 | | 7 | | 6 | 11 | 13 | |
| 46 | 4 | 37 | 49 |) | 7 | 2 37 | | 7 | 4 | | 28 | | 14 | | 21 | 14 | 7 | |
| 47 | 41 | 43 | 3 45 | 5 | 4 | 2 44 | | 14 | 41 | | 33 | | 8 | | 20 | 30 | 12 | |
| 48 | 38 | 43 | | 3 | 11 | 2 45 | | 9 | 37 | | 42 | | 7 | | 22 | 5 | 25 | |
| 49 | 33 | 7 | | 3 | 9 | 2 8 | | 7 | 29 | | 5 | | 13 | | 21 | 17 | 11 | |
| 50 | 37 | 6 | | • | 5 | 2 6 | | 14 | 33 | | 4 | | 7 | | 40 | 13 | 13 | |
| 51 | 45 | 33 | | | 8 | 2 30 | | 8 | 41 | | 14 | | 5 | | 7 | 4 | 13 | |
| 52 | 9 | 36 | | | 5 | 2 35 | | 5 | 9 | | 14 | | 6 | | 4 | 4 | 4 | |
| 53 | 4 | 35 | | | 4 | 2 33 | | 4 | 5 | | 14 | | 8 | | 11 | 5 | 16 | |
| 54 | 16 | 39 | | | 6 | 2 36 | | 6 | 16 | | 23 | | 7 | | 7 | 22 | 26 | |
| 55 | 16 | 38 | | | 4 | 2 37 | | 9 | 16 | | 23 | | 8 | | 6 | 16 | 26 | |
| 56 | 20 | 42 | | | 4 | 2 40 | | 7 | 20 | | 14 | | 7 | | 13 | 10 | 15 | |
| 57 | 23 | 33 | | | 5 | 1 28 | | 8 | 23 | | 5 | | 8 | | 16 | 9 | 24 | |
| 58 | 24 | 36 | | | 7 | 2 34 | | 7 | 24 | | 7 | | 6 | | 9 | 13 | 15 | |
| 59 | 21 | 28 | | | 5 | 2 26 | | 8 | 21 | | 5 | | 8 | | 6 | 8 | 14 | |
| 60 | 11 | 23 | | | 4 | 2 23 | | 6 | 12 | | 21 | | 6 | | 13 | 4 | 21 | |
| 61 | 8 | 52 | | | 5 | 2 43 | | 8 | 9 | | 21 | | 8 | | 6 | 7 | 18 | |
| 62 | 11 | 29 | | • | 4 | 2 29 | | 6 | 12 | | 14 | | 6 | | 28 | 4 | 14 | |
| 63 | 22 | 47 | | | 4 | 2 45 | 1 1 | 10 | 22 | | 5 | | 6 | | 7 | 4 | 24 | |
| 64 | 25 | 4 | | | 6 | 2 4 | 1 | 7 | 23 | | 5 | | 5 | | 34 | 10 | 19 | |
| 65 | 20 | 29 | | | 6 | 1 24 | | 6 | 19 | | 20 | | 10 | | 6 | 6 | 19 | |
| 66 | 6 | 43 | | | 4 | 42 | | 5 | 6 | | 5 | | 8 | | 6 | 14 | 13 | |
| 67 | 8 | 4 | | | 6 | 5 | 1 1 | 11 | 9 | | 5 | | 10 | | 28 | 4 | 23 | |
| 68 | 21 | 5 | | | 9 | 4 | | 8 | 21 | | 25 | | 7 | | 6 7 | 15 | 4 | |
| 69 | 4 | 20 | | | 5 | 23 | | 10 | 4 | | 16 | | 10 | | | 4 | 4 | |
| 70 | 4 | 30 | | | 5 | 5 | 1 | 7 | 4 | + | 19 | | 8 | | 20 | 8 | 22 | |
| 71 72 | 24 | 5 | | | 4 | 4 | | 10 | 24 | | 16 | | 11 | | 18 | 16 | 22 | |
| 73 | 19 22 | 27 | | | 5 | 25 44 | | 9 | 18 20 | | 45 30 | - | 29 16 | - | 27 27 | 16 5 | 20 | |
| 74 | 22 | 54 | | | <u>4</u> 5 | 24 | | 29 | 20 19 | | 30 5 | | 13 | + | 50 | 5 5 | | |
| 75 | | 25 | | | | | | 16 | _ | | 24 | | 13 7 | + | | - | 27 | |
| 76 | 44 5 | | | | 8 | 26 | | 13 | 44 | | <u>24</u> 5 | | 18 | + | 5 35 | 11 | 11 | |
| 76 | 5 | 27 | ' 5 | | 4 | 28 | | ТЗ | 5 | | 5 | | TR | | <i>ა</i> 5 | 11 | ь | |

| 77 | 27 | | 23 | 37 | 4 | 43 | 7 | 27 | 4 | 6 | 9 | 5 | 9 |
|------------|----|---|----|---------------|--|----------|----|-------------|----|----|-----|-----|----------|
| 78 | 4 | | 45 | 6 | 4 | 44 | 18 | 5 | 4 | 11 | 47 | 4 | 27 |
| 79 | 29 | | 49 | 4 | 4 | 23 | 6 | 29 | 16 | 7 | 7 | 9 | 24 |
| 80 | 5 | | 24 | 58 | 4 | 36 | 11 | 5 | 5 | 6 | 6 | 25 | 15 |
| 81 | 4 | | 4 | 76 | 8 | 52 | 7 | 4 | 19 | 11 | 4 | 12 | 17 |
| 82 | 6 | | 38 | 30 | 4 | 44 | 6 | 6 | 21 | 5 | 5 | 11 | 31 |
| 83 | 17 | | 50 | 33 | 4 | 4 | 11 | 17 | 28 | 9 | 21 | 12 | 16 |
| 84 | 6 | | 46 | 30 | 4 | 5 | 5 | 6 | 28 | 24 | 8 | 13 | 5 |
| 85 | 4 | | 5 | 65 | 5 | 5 | 10 | 4 | 23 | 6 | 5 | 4 | 5 |
| 86 | 21 | | 5 | 4 | 6 | 5 | 23 | 21 | 22 | 12 | 26 | 4 | 5 |
| 87 | 23 | | 5 | 60 | 4 | 4 | 9 | 22 | 4 | 16 | 28 | 44 | 4 |
| 88 | 26 | | 4 | 34 | 6 | 5 | 12 | 26 | 26 | 7 | 18 | 15 | 5 |
| 89 | 29 | | 5 | 4 | 4 | 4 | 15 | 29 | 29 | 12 | 10 | 4 | 4 |
| 90 | 25 | | 5 | 77 | 5 | 5 | 8 | 25 | 6 | 18 | 9 | 10 | 5 |
| 91 | 24 | | 5 | 66 | 6 | 5 | 12 | 22 | 21 | 5 | 19 | 19 | 5 |
| 92 | 4 | | 5 | 59 | 4 | 5 | 19 | 5 | 24 | 9 | 6 | 9 | 5 |
| 93 | 26 | | 5 | 5 | 5 | 5 | 5 | 26 | 45 | 11 | 39 | 4 | 5 |
| 94 | 27 | | 5 | 4 | 4 | 5 | 9 | 27 | 6 | 6 | 23 | 5 | 5 |
| 95 | 4 | | 5 | 5 | 6 | 5 | 11 | 4 | 5 | 10 | 8 | 5 | 5 |
| 96 | 5 | | 5 | 5 | 5 | 4 | 6 | 5 | 5 | 15 | 7 | 7 | 5 |
| 97 | 4 | | 4 | 4 | 6 | 5 | 10 | 5 | 4 | 18 | 5 | 4 | 5 |
| 98 | 27 | | 5 | 9 | 5 | 5 | 15 | 25 | 5 | 4 | 5 | 5 | 5 |
| 99 | 26 | | 4 | 6 | 4 | 5 | 18 | 25 | 5 | 4 | 47 | 5 | 5 |
| 100 | 45 | | 5 | 5 | 4 | 5 | 4 | 45 | 5 | 9 | 30 | 5 | 5 |
| 101 | 5 | | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 4 | 5 | 5 | 5 |
| 102 | 4 | | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 6 | 5 | 5 | 5 |
| 103 | 4 | | 5 | 5 | 4 | 5 | 9 | 4 | 5 | 5 | 6 | 6 | 5 |
| 104 | 4 | | 5 | 7 | 4 | 4 | 4 | 6 | 5 | 16 | 4 | 4 | 4 |
| 105 | 6 | | 5 | 4 | 5 | 5 | 8 | 5 | 4 | 4 | 5 | 4 | 4 |
| 106 | 5 | | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 5 | 7 | 13 |
| 107 | 5 | | 4 | 4 | 6 | 5 | 11 | 6 | 4 | 5 | 5 | 6 | 16 |
| 108 | 6 | | 5 | 6 | 4 | 5 | 5 | 4 | 4 | 5 | 5 | 9 | 11 |
| 109 | 4 | | 5 | 6 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 16 |
| 110 | 4 | | 4 | <u>6</u> 5 | 6 | 23 | 5 | 4 | 4 | 10 | 5 | 4 | 7 |
| 111 112 | 4 | | 21 | 4 | | 26 13 | 5 | 4 | 5 | 8 | 5 4 | 5 4 | 12 12 |
| 112 | 4 | - | 25 | 5 | | 20 | 10 | 4 | 4 | 10 | 5 | 5 | 6 |
| 114 | 4 | | 14 | 4 | | 15 | 5 | 4 | 4 | 10 | 4 | 4 | 7 |
| 114 | 4 | + | 18 | 4 | | 21 | 5 | | 5 | 11 | 4 7 | 4 | 7 |
| 116 | 4 | | 15 | 5 | 1 | 19 | 4 | 4 | 6 | 10 | 8 | 5 | 11 |
| ΤTρ | 4 | | TD | כ | | 19 | 4 | 4 | Ö | TO | δ | ן ט | TT |

| 117 | 4 | 18 | 4 | | 1 | 14 | 7 | | 4 | | 4 | 12 | | 5 | | 5 | 16 |
|-----|----|--------|----|---|---|----|--------|---|----|---|----|----|---|----|---|----|--------|
| 118 | 4 | 18 | 4 | | | 15 | 4 | | 4 | | 4 | 12 | 1 | 4 | | 5 | 12 |
| 119 | 4 | 13 | 5 | | | 17 | 8 | 1 | 6 | 1 | 6 | 10 | 1 | 5 | | 5 | 10 |
| 120 | 6 | 13 | 4 | | | 24 | 4 | | 6 | | 5 | 11 | | 5 | | 10 | 8 |
| 121 | 6 | 15 | 7 | | | 24 | 10 | | 5 | | 6 | 11 | | 5 | | 6 | 8 |
| 122 | 5 | 22 | 5 | | | 16 | 4 | | 6 | | 4 | 11 | | 5 | | 5 | 11 |
| 123 | 6 | 20 | 6 | | | 19 | 8 | | 4 | | 26 | 11 | | 5 | | 4 | 5 |
| 124 | 4 | 15 | 5 | | | 14 | 11 | | 26 | | 4 | 11 | | 6 | | 5 | 5 |
| 125 | 26 | 17 | 5 | | | 15 | 10 | | 4 | | 32 | 11 | | 5 | | 5 | 12 |
| 126 | 4 | 14 | 4 | | | 18 | 12 | | 27 | | 4 | 14 | | 5 | 1 | 5 | 11 |
| 127 | 27 | 12 | 7 | | | 5 | 12 | | 4 | | 21 | 13 | | 5 | | 4 | 14 |
| 128 | 4 | 14 | 4 | | | 11 | 11 | | 21 | | 25 | 7 | | 5 | | 4 | 12 |
| 129 | 21 | 5 | 6 | | | 20 | 11 | | 22 | | 26 | 6 | | 5 | | 23 | 7 |
| 130 | 22 | 11 | 4 | | | 21 | 11 | | 25 | | 23 | 5 | | 12 | | 4 | 15 |
| 131 | 25 | 17 | 5 | | | 16 | 11 | | 23 | | 30 | 5 | | 27 | | 15 | 8 |
| 132 | 23 | 20 | 6 | | | 17 | 11 | | 25 | | 26 | 7 | | 6 | | 4 | 4 |
| 133 | 25 | 16 | 4 | | | 10 | 11 | | 23 | | 26 | 6 | | 19 | | 4 | 9 |
| 134 | 23 | 15 | 5 | | | 21 | 12 | | 23 | | 27 | 8 | | 10 | | 5 | 5 |
| 135 | 23 | 10 | 22 | | | 14 | 16 | | 24 | | 27 | 22 | | 6 | | 4 | 13 |
| 136 | 24 | 19 | 25 | | | 10 | 13 | | 27 | | 29 | 13 | | 21 | | 16 | 6 |
| 137 | 27 | 14 | 4 | | | 5 | 8 | | 30 | | 24 | 17 | | 14 | | 21 | 6 |
| 138 | 30 | 10 | 5 | | | 17 | 6 | | 27 | | 27 | 9 | | 6 | | 12 | 8 |
| 139 | 27 | 5 | 5 | | | 13 | 5 | | 27 | | 24 | 14 | | 7 | | 21 | 6 |
| 140 | 27 | 16 | 23 | | | 13 | 5 | | 20 | | 22 | 9 | | 8 | | 15 | 12 |
| 141 | 20 | 13 | 23 | | | 14 | 7 | | 20 | | 20 | 5 | | 4 | | 9 | 17 |
| 142 | 20 | 12 | 23 | | | 17 | 6 | | 22 | | 7 | 9 | | 30 | | 15 | 6 |
| 143 | 22 | 14 | 21 | | | 22 | 8 | | 6 | | 15 | 7 | | 17 | | 18 | 4 |
| 144 | 6 | 14 | 27 | | | 26 | 22 | | 14 | | 28 | 13 | | 24 | | 24 | |
| 145 | 14 | 19 | 22 | 1 | | 17 | 14 | | 29 | | 26 | 6 | | 7 | | 27 | |
| 146 | 29 | 25 | 21 | | | 4 | 19 | | 27 | | 26 | 6 | | 7 | | 13 | |
| 147 | 27 | 14 | 22 | | | | 9 | | 31 | | 22 | 5 | | 8 | | 29 | |
| 148 | 31 | 4 | 24 | | | | 16 | | 24 | - | 19 | 11 | | 6 | | 19 | |
| 149 | 24 | | 29 | | | | 9 | | 16 | - | 30 | 14 | | 6 | | 12 | |
| 150 | 16 | | 13 | | | | 5 | | 30 | - | 22 | 17 | | 18 | | 16 | |
| 151 | 30 | | 20 | | | | 9 | | 20 | | 6 | 11 | | 4 | | 7 | |
| 152 | 20 | | 17 | | | | 7 | | 5 | | 5 | 5 | | 19 | | 12 | _ |
| 153 | 5 | | 21 | 1 | | | 13 | | 4 | | 5 | 4 | | 13 | | 13 | |
| 154 | 4 | | 19 | 1 | | | 9 | | 4 | | 4 | 4 | | 7 | | 12 | |
| 155 | 4 | | 6 | | | | 7 | | 14 | | 16 | 4 | | 23 | | 11 | |
| 156 | 14 | | 14 | | | | 5 | | 7 | | 7 | | | 13 | | 11 | |

| | | | | - | | | | | | | - | | - | - | |
|-----|----|------|------|-------|--|----|------|----|--|------|---|----|---|---|--|
| 157 | 7 | | 16 | | | 11 | 24 | 21 | | 6 | | 10 | | | |
| 158 | 24 | | 28 | | | 14 | 24 | 4 | | 5 | | 15 | | | |
| 159 | 24 | | 18 | | | 17 | 21 | 26 | | 4 | | 23 | | | |
| 160 | 21 | | 14 | | | 11 | 24 | 23 | | 15 | | 6 | | | |
| 161 | 24 | | 14 | | | 5 | 24 | 26 | | 7 | | 5 | | | |
| 162 | 24 | | 15 | | | | 24 | 26 | | 19 | | 4 | | | |
| 163 | 24 | | 15 | | | | 30 | 23 | | 11 | | 5 | | | |
| 164 | 30 | | 7 | | | | 22 | 29 | | 23 | | 10 | | | |
| 165 | 22 | | 4 | | | | 6 | 27 | | 7 | | 7 | | | |
| 166 | 6 | | 5 | | | | | 6 | | 4 | | 8 | | | |
| 167 | | | 15 | | | | | | | 8 | | 4 | | | |
| 168 | | | 5 | | | | | | | 15 | | 17 | | | |
| 169 | | | 21 | | | | | | | 23 | | 13 | | | |
| 170 | | | 17 | | | | | | | 6 | | 21 | | | |
| 171 | | | 20 | | | | | | | | | 18 | | | |
| 172 | | | 24 | | | | | | | | | 12 | | | |
| 173 | | | 21 | | | | | | | | | 19 | | | |
| 174 | | | 20 | | | | | | | | | 15 | | | |
| 175 | | | 19 | | | | | | | | | 7 | | | |
| 176 | | | 22 | | | | | | | | | | | | |
| 177 | | | 4 | | | | | | | | | | | | |

The values of k when they exceed r (3-bug, 10 EFFs)

| | EFF10-8 | 33 (144) | EFF7-3 | 4 (159) | EFF11-8 | 82 (156) | EFF8-13 | 37 (160) | EFF8-1 | .6 (156) | EFF11-4 | 42 (158) | EFF5-9 | 8 (167) | EFF11- | 8 (167) | EFF3-14 | 49 (157) | EFF4-3 | 38 (161) |
|----|---------|----------|--------|---------|---------|----------|---------|----------|--------|----------|---------|----------|--------|---------|--------|---------|---------|----------|--------|----------|
| | k>r | k < r | k>r | k < r | k > r | k < r | k>r | k < r | k>r | k < r | k > r | k < r | k>r | k < r | k>r | k < r | k > r | k < r | k>r | k < r |
| 1 | 7 | 2 | 6 | 2 | 8 | 2 | 10 | 2 | 6 | 2 | 9 | 2 | 11 | 2 | 8 | 2 | 9 | 2 | 6 | 2 |
| 2 | 7 | 2 | 7 | 2 | 4 | 2 | 10 | 2 | 6 | 2 | 9 | 2 | 10 | 2 | 8 | 2 | | 2 | 8 | 2 |
| 3 | 4 | 2 | 4 | 2 | 15 | 2 | 8 | 2 | 6 | 2 | 4 | 2 | 5 | 2 | 4 | 2 | 4 | 2 | 8 | 2 |
| 4 | 6 | 2 | 7 | 2 | 11 | 2 | 12 | 2 | 4 | 2 | 4 | 2 | 6 | 2 | 4 | 2 | 5 | 2 | 13 | 2 |
| 5 | 4 | 2 | 13 | 2 | 8 | 2 | 9 | 2 | 6 | 2 | 6 | 2 | 7 | 2 | 8 | 2 | 5 | 2 | 5 | 2 |
| 6 | 7 | 2 | 11 | 2 | 6 | 2 | 18 | 1 | 4 | 2 | 9 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 5 | 2 |
| 7 | 4 | 2 | 8 | 2 | 7 | 2 | 12 | 1 | 14 | 2 | 6 | 1 | 5 | 2 | 4 | 2 | 7 | 2 | 6 | 2 |
| 8 | 4 | 2 | 7 | 2 | 7 | 2 | 5 | 2 | 7 | 2 | 4 | 1 | 5 | 2 | 4 | 2 | 8 | 2 | 4 | 2 |
| 9 | 4 | 2 | 5 | 2 | 5 | 2 | 4 | 2 | 7 | 2 | 5 | 2 | 8 | 2 | 8 | 2 | 7 | 2 | 5 | 2 |
| 10 | 5 | 2 | 4 | 2 | 14 | 2 | 14 | 2 | 4 | 2 | 5 | 2 | 9 | 1 | 6 | 2 | 9 | 2 | 7 | 2 |
| 11 | 4 | 2 | 7 | 2 | 19 | 2 | 17 | 2 | 8 | 2 | 4 | 2 | 13 | 2 | 5 | 2 | | 2 | 4 | 2 |
| 12 | 4 | 2 | 5 | 2 | 5 | 2 | 7 | 2 | 8 | 2 | 4 | 2 | 9 | 1 | 10 | 2 | 6 | 1 | 11 | 2 |
| 13 | 5 | 2 | 13 | 1 | 11 | 2 | 6 | 2 | 6 | 1 | 4 | 2 | 7 | 1 | 5 | 2 | 4 | 2 | 5 | |
| 14 | 4 | 2 | 14 | 2 | 4 | 1 | 12 | 2 | 10 | 1 | 4 | 1 | 4 | 2 | 7 | 2 | 12 | 2 | 4 | 2 |
| 15 | 4 | 2 | 6 | 2 | 4 | 2 | 5 | 2 | 8 | 2 | 5 | 2 | 13 | 2 | 4 | 1 | 8 | 2 | 4 | 2 |
| 16 | 5 | 2 | 10 | 2 | 5 | 2 | 6 | 2 | 4 | 2 | 5 | 1 | 8 | 2 | 9 | 2 | 5 | 2 | 4 | 2 |
| 17 | 4 | 2 | 4 | 2 | 25 | 2 | 5 | 1 | 4 | 2 | 6 | 1 | 6 | 1 | 4 | 1 | 10 | 2 | 8 | 2 |
| 18 | 4 | 1 | 5 | 2 | 5 | 2 | 11 | 2 | 5 | 2 | 4 | 1 | 9 | 1 | 11 | 1 | 5 | 2 | 6 | 2 |
| 19 | 4 | 2 | 5 | 2 | 11 | 2 | 10 | 2 | 5 | 2 | 5 | 2 | 7 | 1 | 11 | 2 | | 2 | 6 | |
| 20 | 5 | 1 | 20 | 2 | 8 | 2 | 6 | 2 | 6 | 2 | 4 | 2 | 7 | 2 | 8 | 2 | 8 | 2 | 9 | |
| 21 | 4 | 1 | 5 | 2 | 7 | 2 | 7 | 2 | 7 | 2 | 4 | 2 | 12 | 1 | 5 | 2 | 5 | 2 | 6 | |
| 22 | 5 | 1 | 9 | 2 | 4 | 2 | 8 | 2 | 4 | 1 | 6 | 1 | 5 | 1 | 5 | 2 | 5 | 2 | 5 | |
| 23 | 5 | 2 | 9 | 2 | 9 | 2 | 6 | 2 | 7 | 1 | 4 | 1 | 5 | 1 | 4 | 1 | 4 | 2 | 6 | |
| 24 | 4 | 2 | 6 | 2 | 7 | 2 | 8 | 1 | 6 | 2 | 8 | 2 | 5 | 1 | 4 | 2 | | 2 | 12 | 2 |
| 25 | 5 | 2 | 6 | 2 | 25 | 2 | 8 | 1 | 5 | 1 | 6 | 1 | 4 | 1 | 4 | 1 | 4 | 2 | 14 | 1 |
| 26 | 5 | 2 | 6 | 2 | 4 | 2 | 6 | 2 | 4 | 1 | 7 | 1 | 4 | 2 | 4 | 2 | 9 | 2 | 4 | 2 |
| 27 | 5 | 2 | 4 | 2 | 8 | 2 | 5 | 2 | 6 | 1 | 4 | 2 | 5 | 2 | 6 | 1 | 6 | 2 | 7 | 2 |
| 28 | 4 | 2 | 6 | 2 | 5 | 2 | 9 | 2 | 8 | 1 | 5 | 1 | 8 | 2 | 4 | 1 | 6 | 2 | 6 | |
| 29 | 4 | 2 | 4 | 2 | 4 | 2 | 9 | 2 | 4 | 1 | 7 | 2 | 4 | 2 | 13 | 1 | 7 | 2 | 10 | |
| 30 | 4 | 2 | 4 | 2 | 11 | 2 | 4 | 2 | 5 | 2 | 8 | 1 | 8 | 2 | 10 | 2 | 5 | 2 | 5 | |
| 31 | 4 | 2 | 7 | 2 | 7 | 2 | 4 | 2 | 5 | 2 | 4 | 2 | 6 | 2 | 7 | 1 | 7 | 1 | 5 | |
| 32 | 6 | 1 | 4 | 2 | 11 | 2 | 6 | 2 | 6 | 1 | 8 | 2 | 5 | 2 | 6 | 1 | 8 | 2 | 5 | 2 |
| 33 | 4 | 1 | 6 | 2 | 6 | 1 | 6 | 2 | 5 | 2 | 8 | 2 | 5 | | 4 | 1 | 5 | 2 | 13 | 2 |
| 34 | 4 | 2 | 6 | 2 | 6 | 1 | 13 | 2 | 7 | 2 | 9 | 2 | 8 | | 4 | 2 | 5 | 2 | 20 | 2 |
| 35 | 4 | 1 | 5 | 2 | 11 | 2 | 21 | 2 | 4 | 2 | 4 | 1 | 7 | | 7 | 1 | 6 | 1 | 15 | 2 |
| 36 | 4 | 1 | 11 | 2 | 4 | 2 | 5 | 1 | 6 | 2 | 6 | 2 | 5 | | 14 | 1 | 7 | 1 | 19 | 2 |

| 37 | 4 | 2 | 8 | 2 | 7 | 2 | 13 | 2 | 4 | 2 | 9 | 1 | 4 | 4 | 2 | 10 | 2 | 9 | 2 |
|----------|---|---------------|----|---|---------|---|----|----------|--------|---|--------|---|----------------|---------------|---|--------|---|----------|----------------------------|
| 38 | 5 | 1 | 6 | 2 | 5 | 2 | 7 | 2 | 5 | 2 | 5 | 1 | 6 | 5 | 1 | 4 | 1 | 5 | 2 2 2 |
| 39 | 4 | 1 | 4 | 2 | 12 | 2 | 13 | 1 | 5 | 2 | 5 | 2 | 8 | 5 | 2 | 5 | 2 | 6 | 2 |
| 40 | 4 | 2 | 8 | 2 | 5 | 2 | 5 | 2 | 4 | 2 | 5 | 2 | 12 | 19 | 2 | 7 | 2 | 6 | 2 |
| 41 | 4 | 1 | 5 | 2 | 4 | 2 | 7 | 1 | 4 | _ | 6 | 2 | 5 | 5 | 2 | 7 | 2 | 31 | 2 |
| 42 | 4 | 2 | 4 | 2 | 4 | 2 | 10 | | 4 | | 8 | 2 | 7 | 6 | 2 | 11 | 2 | 12 | 1 |
| 43 | 4 | 1 | 10 | 2 | 4 | 2 | 8 | | 7 | | 9 | 2 | 7 | 5 | 2 | 7 | 2 | 12 | 2 |
| 44 | 5 | 2 | 4 | 2 | 7 | 2 | 4 | | 4 | | 5 | 1 | 4 | 5 | 1 | 6 | 1 | 27 | 2 2 1 2 2 2 |
| 45 | 4 | 1 | 4 | 2 | 4 | 1 | 5 | | 4 | | 8 | 2 | 5 | 14 | 2 | 4 | 1 | 4 | 2 |
| 46 | 4 | 2 | 7 | 2 | 7 | 2 | 7 | | 11 | | 6 | 2 | 15 | 5 | | 6 | 1 | 18 | 2 |
| 47 | 5 | 2 | 9 | 2 | 7 | 2 | 5 | | 7 | | 9 | 2 | 5 | 10 | | 6 | 2 | 13 | 1 |
| 48 | 5 | 2 | 4 | | 6 | 1 | 7 | | 9 | | 6 | 1 | 10 | 5 | | 5 | 1 | 5 | 1 |
| 49 | 5 | 2 | 8 | | 4 | 2 | 8 | | 7 | | 5 | 2 | 4 | 5 | | 4 | 1 | 5 | 1 |
| 50 | 5 | 2 | 7 | | 5 | 2 | 6 | | 5 | | 5 | | 5 | 15 | | 4 | 1 | 5 | 1 |
| 51 | 5 | 2 | 8 | | 5 | 1 | 11 | | 7 | | 5 | | 4 | 9 | | 7 | 1 | 4 | 1 |
| 52 | 5 | 1 | 4 | | 5 | 1 | 8 | | 4 | | 7 | | 7 | 6 | | 12 | 2 | 4 | 2 |
| 53 | 5 | 2 | 4 | | 4 | 1 | 6 | | 4 | | 5 | | 22 | 7 | | 6 | 2 | 4 | 2 2 1 |
| 54 | 5 | 1 | 11 | | 4 | 1 | 10 | | 6 | | 7 | | 8 | 17 | | 4 | 2 | 7 | 1 |
| 55 | 5 | 1 | 4 | | 4 | 2 | 5 | | 4 | | 10 | | 10 | 16 | | 15 | 2 | 4 | 2 |
| 56 | 5 | 2 | 5 | | 4 | 2 | 9 | | 8 | | 6 | | 5 | 6 | | 6 | 2 | 4 | 2 |
| 57 | 5 | 2 | 5 | | 6 | 2 | 5 | | 8 | | 6 | | 9 | 4 | | 4 | 2 | 4 | 1 |
| 58 | 5 | 2 | 4 | | 4 | 2 | 5 | | 4 | | 5 | | 10 | 7 | | 4 | 2 | 10 | 2 |
| 59 | 4 | 2 | 4 | | 5 | 2 | 13 | | 4 | | 5 | | 9 | 7 | | 5 | 2 | 9 | 2 |
| 60 | 5 | 2 | 5 | | 4 | 2 | 10 | | 7 | | 5 | | 5 | 7 | | 6 | 2 | 7 | 2 |
| 61 | 5 | 2 | 4 | | 4 | 2 | 4 | | 4 | | 5 | | 4 | 7 | | 8 | 2 | 15 | 1 |
| 62 | 5 | 2 | 4 | | 5 | 2 | 6 | | 10 | | 6 | | 8 | 6 | | 5 | 2 | 14 | 1 |
| 63 | 5 | 2 | 5 | | 20 | 2 | 10 | | 7 | | 4 | | 4 | 19 | | 4 | 1 | 9 | 1 |
| 64 | 5 | 2 | 7 | | 4 | 2 | 4 | | 4 | | 8 | | 6 | 5 | | 4 | 2 | 8 | 2 |
| 65 | 5 | 2 | 4 | | 9 | 2 | 9 | | 4 | | 4 | | 10 | 8 | | 9 | 1 | 9 | 1 |
| 66 | 5 | 2 | 4 | | 11 | 2 | 6 | | 9 | | 5 | | 8 | 20 | | 5 | | 12 | 1 2 2 |
| 67 68 | 5 | <u>2</u> 1 | 6 | | 7 11 | | 10 | | 6 8 | | 5 8 | | <u>4</u> 12 | 17 12 | | 5 4 | | 12 14 | |
| | 4 | | 4 | | | | | | 5 | | 10 | | <u>12</u> 7 | | | 4 | | 10 | 1 |
| 69 | 4 | 2 | | | 5 15 | | 5 | | | | | | | <u>8</u> 5 | | | | 9 | |
| 70 71 | 4 | | 4 | | 15 | | 7 | | 5 5 | | 8 | | 4 16 | 5 | | 7 | | 13 | |
| 72 | 4 | <u>2</u> 1 | 6 | | 15 4 | | 14 | | 4 | | 5 5 | + | 6 | 5 | | 5 | + | 13 7 | |
| 73 | 4 | | 6 | | 13 | | 4 | \dashv | 4 | | 5 | | 4 | 5 | | 4 | | 7 | |
| 74 | | | 5 | | 22 | | 4 | -+ | 5 | | 7 | - | 8 | 5 | | 8 | - | 5 | |
| 75 | | | 4 | | 14 | | 4 | | 5 5 | | 6 | | 6 | <u> </u> | | 8 | | 20 | |
| 76 | ł | | 6 | | 4 | | 5 | | 5 5 | | 5 | | <u> </u> | <u> </u> | | 5 | | 5 | |
| 70 | | | Ö | | 4 | | 5 | | 5 | | 5 | | 5 | כ | | 5 | | ე | ı |

| 77 | 1 | 7 | 16 | 6 | 5 | 5 | 5 | 1 | 5 | 6 | 16 | |
|-----|---|--------|----|----|----|---|----|---|----|---|----|----------|
| 78 | | 7 | 21 | 4 | 4 | 5 | 5 | | 5 | 5 | 7 | |
| 79 | | 9 | 4 | 5 | 5 | 5 | 4 | | 5 | 5 | 5 | |
| 80 | | 7 | 5 | 4 | 5 | 5 | 5 | | 5 | 5 | 21 | |
| 81 | | 8 | 5 | 10 | 5 | 5 | 5 | | 5 | 6 | 6 | |
| 82 | | 12 | 5 | 5 | 4 | 6 | 5 | | 5 | 4 | 4 | |
| 83 | | 8 | 5 | 6 | 5 | 6 | 5 | | 5 | 6 | 5 | |
| 84 | | 8 | 10 | 4 | 4 | 5 | 5 | | 5 | 4 | 6 | |
| 85 | | 6 | 10 | 6 | 5 | 4 | 4 | | 5 | 4 | 8 | |
| 86 | | 12 | 8 | 4 | 5 | 5 | 5 | | 5 | 5 | 5 | ĺ |
| 87 | | 9 | 5 | 4 | 5 | 5 | 4 | | 5 | 6 | 13 | |
| 88 | | 4 | 10 | 4 | 4 | 4 | 5 | | 5 | 6 | 8 | |
| 89 | | 7 | 5 | 6 | 5 | 4 | 5 | | 4 | 6 | 6 | |
| 90 | | 14 | 4 | 7 | 5 | 5 | 4 | | 5 | 5 | 15 | |
| 91 | | 7 | | 6 | 5 | 5 | 8 | | 4 | 6 | 11 | |
| 92 | | 6 | | 8 | 5 | 6 | 4 | | 4 | 6 | 6 | |
| 93 | | 10 | | 5 | 5 | 5 | 5 | | 5 | | | |
| 94 | | 19 | | 6 | 5 | 6 | 5 | | 5 | | | |
| 95 | | 7 | | 8 | 6 | 5 | 5 | | 5 | | | |
| 96 | | 5 | | 5 | 4 | 5 | 5 | | 5 | | | 1 |
| 97 | | 5 | | 8 | 6 | 4 | 5 | | 5 | | | 1 |
| 98 | | 17 | | 4 | 8 | 4 | 5 | | 6 | | | |
| 99 | | 11 | | 6 | 6 | 4 | 4 | | 5 | | | |
| 100 | | 4 | | 6 | 5 | 5 | 4 | | 5 | | | |
| 101 | | 4 | | 4 | 4 | 5 | 7 | | 6 | | | |
| 102 | | 6 | | 5 | 8 | 4 | 4 | | 5 | | | |
| 103 | | 11 | | 7 | 7 | 4 | 5 | | 6 | | | |
| 104 | | 4 | | 5 | 6 | 4 | 4 | | 5 | | | |
| 105 | | 5 | | 5 | 7 | 6 | 4 | | 13 | | | <u> </u> |
| 106 | | 4 | | 4 | 4 | 4 | 4 | | 7 | | | |
| 107 | | 10 | | 7 | 5 | 5 | 4 | | 6 | ļ | | |
| 108 | | 7 | | 4 | 4 | 4 | 7 | | 10 | | | |
| 109 | | 9 | | 4 | 4 | 4 | 10 | | 6 | | | |
| 110 | | 8 | | 5 | 5 | | 5 | | 5 | | | |
| 111 | | 9 | | 7 | 7 | | 7 | | 4 | | | |
| 112 | | 6 | | 4 | 6 | | 5 | | 5 | | | <u> </u> |
| 113 | | | | 5 | 5 | | 8 | | 4 | | | |
| 114 | | | | 5 | 4 | | 10 | | 5 | | | |
| 115 | | | | 4 | 10 | | 9 | | 6 | | | |
| 116 | | | | 7 | 5 | | 9 | | 5 | | | ı |

| | | | | | 1 | | - | | - | | | |
|-----|--|--|--|---|---|--|---|----|---|--|--|--|
| 117 | | | | 6 | | | | 6 | 5 | | | |
| 118 | | | | 6 | | | | 4 | 7 | | | |
| 119 | | | | 7 | | | | 10 | 5 | | | |
| 120 | | | | | | | | 8 | 4 | | | |
| 121 | | | | | | | | 6 | 8 | | | |
| 122 | | | | | | | | 10 | 5 | | | |
| 123 | | | | | | | | 9 | | | | |
| 124 | | | | | | | | 5 | | | | |
| 125 | | | | | | | | 4 | | | | |
| 126 | | | | | | | | 6 | | | | |
| 127 | | | | | | | | 5 | | | | |
| 128 | | | | | | | | 11 | | | | |
| 129 | | | | | | | | 5 | | | | |
| 130 | | | | | | | | 8 | | | | |
| 131 | | | | | | | | 9 | | | | |
| 132 | | | | | | | | 6 | | | | |
| 133 | | | | | | | | 4 | | | | |
| 134 | | | | | | | | 9 | · | | | |
| 135 | | | | | | | | 6 | | | | |

The values of k when they exceed r (4-bug, 12 groups of REFs)

| | Group | 1 (180) | Group | 2 (188) | Group | 3 (171) | Group4 | (170) | Group | 5 (188) | Group | 6 (189) | Group | 7 (183) | Group | 8 (174) | Group | 9 (187) | Group1 | LO (185) | Group1 | L1 (160) | Group1 | 12 (180) |
|----------|-----------|---------|----------|---------|-------|---------|--------|----------|----------|---------|-------|---------|---------|---------|----------|----------|-------|---------|----------|----------|--------|----------|---------|----------|
| | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r |
| 1 | 42 | 3 | 34 | 1 | 47 | 3 | 8 | 3 | 35 | 2 | 12 | 3 | 43 | 2 | 43 | 1 | 10 | 3 | 29 | 3 | 17 | 3 | 16 | 3 |
| 2 | 42 | 3 | 33 | 1 | 45 | 2 | 5 | 3 | 37 | 2 | 14 | 3 | 43 | 3 | 43 | 1 | 13 | 2 | 22 | 1 | 15 | 3 | 12 | 3 |
| 3 | 50 | 3 | 40 | 1 | 48 | 1 | 9 | 3 | 44 | 2 | 16 | 3 | 48 | 3 | 49 | 1 | 16 | 3 | 26 | 1 | 16 | 3 | 20 | 3 |
| 4 | 35 | 3 | 35 | 2 | 41 | 1 | 8 | 3 | 36 | 2 | 7 | 2 | 36 | 2 | 36 | 2 | 6 | 2 | 7 | 2 | 8 | 3 | 7 | 3 |
| 5 | 50 | 3 | 42 | 2 | 50 | 1 | 7 | 3 | 45 | 2 | 26 | 3 | 49 | 3 | 49 | 3 | 22 | 3 | 38 | 3 | 28 | 3 | 11 | 3 |
| 6 | 50 | 2 | 42 | 1 | 53 | 1 | 5 | 3 | 45 | 2 | 16 | 2 | 48 | 3 | 49 | 3 | 16 | 2 | 26 | 3 | 15 | 3 | 18 | 2 |
| 7 | 42 | 3 | 39 | 1 | | 1 | 6 | 3 | | 2 | 8 | 2 | | 3 | 44 | 2 | 8 | 2 | 20 | 3 | 15 | 3 | 12 | 2 |
| 8 | 46 | 3 | 42 | 3 | | 2 | 10 | 3 | | 2 | 6 | 2 | | 3 | 46 | 3 | 6 | 2 | 19 | 3 | 13 | 3 | 19 | 3 |
| 9 | 46 | 3 | 42 | 3 | | 2 | 10 | 3 | | 3 | 7 | 3 | | 3 | 46 | 2 | 7 | 3 | 19 | 2 | 14 | 3 | 19 | 3 |
| 10 | 41 | 3 | 40 | 3 | | 2 | 5 | 3 | | 3 | 19 | 3 | | 3 | 40 | 2 | 20 | 3 | 28 | 3 | 19 | 3 | 24 | 3 |
| 11 | 37 | 3 | 46 | 3 | | 3 | 12 | 2 | 45 | 3 | 25 | 3 | | 3 | 33 | 3 | 25 | 3 | 21 | 3 | 32 | 3 | 23 | 3 |
| 12 | 45 | 3 | 43 | 3 | | 1 | 7 | 2 | 44 | 3 | 12 | 3 | | 3 | 47 | 3 | 8 | 3 | 29 | 3 | 26 | 1 | 20 | 3 |
| 13 | 50 | 3 | 43 | 3 | | 3 | 7 | 2 | | 3 | 12 | 3 | | 3 | 53 | 3 | | 3 | 18 | 2 | 10 | 1 | 13 | 3 |
| 14 | 39 | 3 | 46 | 3 | | 3 | 10 | 2 | | 3 | 22 | 3 | | 3 | 35 | 2 | 21 | 3 | 23 | 2 | 31 | 3 | 18 | 3 |
| 15 | 39 | 3 | 46 | 3 | | 3 | 8 | 2 | | 2 | 22 | 3 | | 3 | 35 | 2 | 21 | 3 | 23 | 2 | 29 | 3 | 18 | 2 |
| 16 | 40 | 3 | 39 | 3 | | 3 | 8 | 1 | 40 | 3 | 19 | 3 | | 3 | 40 | 2 | 18 | 3 | 26 | 2 | 20 | 3 | 18 | 2 |
| 17 | 49 | 3 | 38 | 3 | | 3 | 7 | 1 | 46 | 2 | 22 | 3 | | 3 | 51 | 3 | 18 | 3 | 27 | 3 | 22 | 3 | 16 | 3 |
| 18 | 8 | 3 | 31 | 3 | | 2 | 5 | 1 | 42 | 3 | 6 | 3 | | 3 | 10 | 3 | 6 | 3 | 7 | 2 | 8 | 2 | 24 | 3 |
| 19 | 39 | 3 | 44 | 3 | | 3 | 7 | 1 | 45 | 3 | 14 | 3 | | 3 | 38 | 2 | 9 | 3 | 40 | 3 | 15 | 3 | 31 | 3 |
| 20 | 41 | 3 | 39 | 3 | | 3 | 5 | 3 | 42 | 3 | 20 | 3 | | 3 | 34 | 3 | 20 | 3 | 34 | 2 | 20 | 3 | 21 | 3 |
| 21 | 44 | 3 | 46 | 3 | | 3 | 5 | 2 | 46 | 3 | 12 | 3 | | 3 | 41 | 2 | 12 | 3 | 15 | 3 | 16 | 3 | 6 | 3 |
| 22 | 47 | 3 | 44 | 3 | | 3 | 5 | 3 | 43 | 3 | 12 | 3 | | 3 | 46 | 3 | 12 | 3 | 33 | 3 | 17 | 3 | 15 | 3 |
| 23 | 45 | 3 | 37 | 3 | | 3 | / | 2 | 37 | 3 | 12 | 3 | | 3 | 46 | 2 | 12 | 3 | 24 | 2 | 12 | 2 | 13 | 3 |
| 24 | 39 | 3 | 36 | 3 | | 3 | 7 | 2 | 39 | 3 | 11 | 3 | | 3 | 40 | 3 | 10 | 3 | 29 | 3 | 8 | 2 | 11 | 3 |
| 25 | 43 | 3 | 26 | 3 | | 3 | 7 | 3 | | 3 | 9 | 3 | | 3 | 46 | 2 | 9 | 3 | 17 | 3 | 13 | 3 | 11 | 3 |
| 26 | 35 | 2 | 35 | 3 | | 3 | 5 | 3 | | 3 | 9 | 3 | | 3 | 34 | 3 | 8 | 2 | 33 | 3 | 8 7 | 2 | 5 | 3 |
| 27 | 36 | 3 | 40 | 3 | | 3 | 8 | 2 | | 3 | 7 | 2 | | 2 | 37 | 2 | 7 | 2 | 18 | 3 | | 3 | 13 | 3 |
| 28 29 | 40 34 | 3 | 33 39 | 3 | | 2 | 6 | <u>3</u> | 34 36 | 3 | 6 | 3 | | 3 | 40 33 | 3 | 6 | 3 | 25 35 | <u>3</u> | 14 | 3 | 18 6 | <u>3</u> |
| 30 | <u>34</u> | 3 | 41 | 3 | | 3 | 10 | 2 | | 3 | 5 | 3 | 34 7 | 3 | 33 5 | 3 | 6 | 3 | 24 | 3 | 6 8 | | 5 | |
| 31 | 33 | 3 | 41 | 3 | | 3 | 11 | 3 | 45 | 3 | 6 | 3 | 31 | 3 | 32 | 3 | 10 | 3 | 27 | 3 | 9 | | 7 | 2 |
| 32 | 31 | 3 | 36 | 3 | | 3 | 6 | 3 | | 3 | 10 | 3 | | 3 | 3Z 27 | 3 | | 3 | 18 | 3 | 11 | | 14 | |
| 33 | 47 | 3 | 40 | 3 | | 3 | 5 | 2 | | 3 | 5 | 3 | | 3 | 45 | <u>3</u> | 6 | 3 | 34 | | 8 | | 6 | 2 |
| 34 | 31 | 3 | 32 | 2 | 40 | 3 | 12 | 3 | 38 | 2 | 7 | 3 | | 3 | 29 | 3 | 10 | 3 | 24 | | 9 | | 15 | 2 |
| 35 | 40 | 3 | 43 | 2 | 54 | 3 | 5 | 2 | 47 | 2 | 6 | 3 | | 3 | 40 | 2 | 20 | 3 | <u> </u> | | 26 | | 17 | 3 |
| 36 | 5 | 3 | 44 | 2 | 47 | | 5 | 2 | 44 | 3 | 14 | 3 | | 3 | 39 | 3 | 12 | 3 | 39 | | 19 | | 12 | 3 |
| 30 | J | 3 | 44 | | 41 | | J | | 44 | J | 14 | 3 | J | 3 | JJ | 3 | 12 | J | JJ | | 13 | | 14 | <u> </u> |

| 37 | 40 | 3 | 42 | 3 | 54 | 7 2 | 41 | 3 | 19 | 3 | 39 | 3 | 48 | 3 | 9 | 3 | 29 | | 13 | 5 3 |
|----------|----------|---|----------|---|----------|-------------------|----|---|---------|---|-----------|---|---------|---|---------|---|---------|---|--------|-------|
| 38 | 46 | 3 | 43 | 3 | | 5 3 | | 3 | 12 | 2 | 46 | 3 | 33 | 3 | 13 | 2 | 18 | | 9 | 14 3 |
| 39 | 35 | 3 | 41 | 3 | | 6 2 | | 3 | 12 | 2 | | 3 | 35 | 3 | 14 | 2 | 19 | | 6 | 11 3 |
| 40 | 39 | 3 | 37 | 3 | | 6 2 | - | 3 | 13 | | 33 | 3 | 48 | 3 | 10 | 3 | 27 | | 12 | 16 2 |
| 41 | 46 | 3 | 40 | 2 | | 5 2 | | 3 | 14 | 3 | 47 | 3 | 46 | 3 | 6 | 3 | 28 | | 16 | 8 3 |
| 42 | 45 | 3 | 42 | 2 | | 6 2 | | 2 | 10 | | 44 | 3 | 42 | 3 | 17 | 3 | 6 | | 13 | 11 2 |
| 43 | 42 | 3 | 43 | 2 | 47 | 6 1 | 41 | 2 | 6 | | 42 | 3 | 26 | 3 | 5 | 3 | 23 | | 11 | 18 3 |
| 44 | 29 | 3 | 40 | 2 | 53 | 8 2 | | 2 | 17 | 3 | 28 | 3 | 47 | 3 | 15 | 3 | 39 | | 14 | 8 3 |
| 45 | 43 | 3 | 28 | 2 | | 6 2 | | 2 | 5 | | 44 | 3 | 44 | 3 | 19 | 3 | 24 | | 12 | 13 2 |
| 46 | 43 | 2 | 6 | 2 | 20 | 6 2 | | 2 | 16 | | 42 | 3 | 49 | 3 | 15 | 3 | 9 | | 9 | 17 3 |
| 47 | 51 | 3 | 40 | 3 | | 6 1 | 38 | 2 | 20 | 1 | 48 | 2 | 25 | 2 | 6 | 1 | 27 | | 27 | 21 2 |
| 48 | 5 | 3 | 6 | 2 | | 5 2 | | 2 | 15 | | 5 | 3 | 14 | 3 | 6 | 3 | 24 | | 7 | 5 2 |
| 49 | 25 | 2 | 41 | 2 | 23 | 5 3 | | 2 | 9 | 2 | 24 | 3 | 5 | 2 | 5 | 2 | 5 | | 28 | 18 3 |
| 50 | 15 | 3 | 43 | 2 | 57 | 5 3 | 42 | 3 | 6 | 3 | 16 | 2 | 5 | 2 | 21 | 3 | 32 | | 18 | 18 3 |
| 51 | 11 | 3 | 34 | 2 | 44 | 5 3 | 33 | 2 | 5 | 1 | 12 | 3 | 25 | 2 | 5 | 1 | 7 | | 17 | 21 3 |
| 52 | 9 | 2 | 36 | 2 | 70 | 7 2 | 35 | 2 | 22 | 3 | 9 | 3 | 5 | 3 | 6 | 3 | 6 | | 16 | 26 2 |
| 53 | 25 | 2 | 33 | 2 | 47 | 5 2 | 29 | 2 | 5 | | 25 | 2 | 14 | 3 | 19 | 2 | 7 | | 23 | 27 2 |
| 54 | 9 | 3 | 41 | 2 | 71 | 5 3 | | 2 | 9 | | 9 | 2 | 28 | 3 | 16 | 3 | 37 | | 18 | 32 2 |
| 55 | 16 | 3 | 35 | 2 | | 5 3 | | 2 | 20 | 2 | | 3 | 28 | 3 | 7 | 3 | 7 | | 8 | 16 2 |
| 56 | 29 | 3 | 27 | 3 | | 5 3 | | 2 | 16 | 3 | 29 | 3 | 15 | 3 | 8 | 2 | 7 | | 8 | 15 3 |
| 57 | 28 | 3 | 36 | 2 | | 5 3 | | 3 | 7 | 2 | | 3 | 13 | | 7 | 3 | 41 | | 15 | 14 3 |
| 58 | 21 | 3 | 29 | 3 | | 5 2 | | 2 | 8 | | 21 | 3 | 5 | | 8 | 2 | 47 | | 5 | 21 2 |
| 59 | 23 | 2 | 25 | 2 | | 5 2 | | 3 | 7 | 2 | 22 | 3 | 14 | | 6 | 1 | 8 | | 5 | 15 2 |
| 60 | 6 | 3 | 5 | 2 | | 6 1 | 5 | 2 | 9 | | 6 | 2 | 23 | | 17 | 2 | 33 | | 15 | 15 2 |
| 61 | 20 | 3 | 28 | 2 | | 6 3 | | 2 | 7 | 3 | 20 | 3 | 15 | | 9 | 2 | 8 | | 7 | 25 2 |
| 62 | 25 | | 25 | 2 | 32 | 6 2 | | 2 | 17 | 3 | 25 | 3 | 5 | | 18 | 2 | 34 | | 10 | 17 2 |
| 63 | 22 | | 5 | 2 | | 5 3 | | 2 | 9 | | 21 | | 29 | | 15 | 3 | 30 | | 14 | 17 2 |
| 64 | 6 | | 27 | 2 | | 6 2 | | 2 | 17 | 2 | 6 | | 23 | | 5 | 3 | 7 | | 16 | 14 |
| 65 | 30 | | 31 | 2 | 45 | 5 2 | | 2 | 15 | 3 | 30 | | 27 | | 7 | 1 | 8 | | 5 7 | 16 |
| 66 | 23 | | 5 | 2 | | 6 3 | | 2 | 5 | 2 | 23 | | 15 | | 16 | 2 | 6 | | | 16 |
| 67 | 29 | | 33 | 2 | | 5 2 | | 2 | 7 | | 29 | | 5 | | 6 | 2 | 27 | | 14 | 15 |
| 68 | 20 | | 6 | 2 | 40 | 5 2 | | 2 | 17 7 | 3 | 20 | | 5 | | 6 | 2 | 9 | | 5 | 33 |
| 69 | 6 | | 31 | | U | 5 3 | | 2 | 7 | | Ŭ | | 29 | | 18 | 2 | 23 | | 15 | 17 |
| 70 71 | 28 15 | | 5 58 | | 61 | 6 <u>3</u> 5 3 | | 3 | 17 | | 28 15 | | 16 | | 10 | | 8 | | 14 | 25 |
| 72 | 15 5 | | 58 19 | | 34 23 | 5 3 6 2 | | | 10 | | <u>15</u> | | 5 25 | + | 5 11 | | 6 23 | | 9 5 | 11 18 |
| 73 | 26 | | 19 7 | | 61 | 5 3 | | | 5 | | 27 | | 15 | | 11 7 | | 12 | - | 14 | 23 |
| 74 | 26 19 | | 40 | | 13 | 6 2 | | | 10 | | 18 | | 5 | | 8 | | 12 8 | | 6 | 19 |
| 75 | 6 | | 29 | | 8 | 5 3 | | | 7 | | 5 | | 18 | | 14 | | 9 | | 7 | 18 |
| 76 | 17 | | 33 | | 24 | 5 3 | | | 8 | | 16 | | 5 | | 14 | | 6 | | 5 | 16 |
| 10 | Ι/ | | 33 | | ۷4 | 5 3 | 25 | | ŏ | | TΩ | | Э | | 14 | | Ö | | 5 | Τ0 |

| 77 | 5 | 3- | 4 1 | 75 | 6 | 2 | 29 | 15 | 5 | | 5 | | 8 | | 8 | | 15 | 19 | \neg |
|------------|-----------|----|------------|----------|---|---|----------|---------|----------|----|----------|---|------------|---|--------|---|----------|----------|--------|
| 78 | 19 | 3 | | 81 | | 3 | 40 | 14 | 20 | | 15 | | 7 | | 18 | | 5 | 5 | |
| 79 | 6 | 4 | | 71 | | 3 | 46 | 7 | 6 | | 5 | | 6 | | 6 | | 5 | 5 | |
| 80 | 27 | | 5 | 9 | | 3 | 5 | 7 | 25 | | 24 | | 6 | | 6 | | 5 | 5 | |
| 81 | 23 | | 5 | 5 | | 2 | 5 | 9 | 23 | | 19 | | 24 | | 24 | | 5 | 5 | |
| 82 | 16 | | 5 | 5 | | 2 | 5 | 6 | 16 | | 15 | | 34 | | 6 | | 5 | 5 | |
| 83 | 27 | | 5 | 5 | | 2 | 5 | 25 | 27 | | 22 | | 6 | | 32 | | 5 | 5 | |
| 84 | 21 | | 5 | 5 | | 3 | 5 | 35 | 21 | | 20 | | 5 | | 13 | | 6 | 5 | |
| 85 | 6 | | 5 | 5 | | 3 | 5 | 5 | 6 | | 6 | | 10 | | 7 | | 5 | 5 | |
| 86 | 16 | | 5 | 9 | | 3 | 5 | 5 | 5 | | 15 | | 16 | | 30 | | 5 | 5 | |
| 87 | 8 | | 5 | 5 | | 2 | 5 | 10 | 16 | | 8 | | 12 | | 29 | | 5 | 5 | |
| 88 | 27 | | 5 | 5 | | 2 | 5 | 16 | 8 | | 29 | | 7 | | 9 | | 5 | 5 | |
| 89 | 5 | | 5 | 5 | | 2 | 5 | 14 | 27 | | 19 | | 10 | | 10 | | 5 | 5 | |
| 90 | 22 | | 5 | 5 | | 3 | 5 | 7 | 5 | | 21 | | 6 | | 30 | | 5 | 5 | |
| 91 | 30 | | 5 | 5 | | 2 | 5 | 10 | 22 | | 6 | | 8 | | 6 | | 5 | 5 | |
| 92 | 7 | | 5 | 5 | | 2 | 5 | 6 | 5 | | 5 | | 6 | | 17 | | 5 | 5 | |
| 93 | 5 | | 5 | 5 | | 3 | 5 | 8 | 28 | | 29 | | 7 | | 5 | | 5 | 5 | |
| 94 | 5 | | 5 | 5 | | | 5 | 6 | 8 | | 29 | | 5 | | 9 | | 5 | 5 | |
| 95 | 24 | | 5 | 5 | | | 5 | 10 | 5 | | 5 | | 11 | | 5 | | 5 | 5 | |
| 96 | 29 | | 5 | 5 | | | 5 | 5 | 5 | | 32 | | 16 | | 6 | | 7 | 12 | |
| 97 | 27 | | 5 | 5 | | | 18 | 9 | 24 | | 27 | | 13 | | 9 | | 5 | 16 | |
| 98 | 24 | 1 | | 6 | | | 25 | 16 | 29 | | 27 | | 10 | | 6 | | 5 | 16 | |
| 99 | 24 | 2 | | 8 | | | 26 | 12 | 27 | | 23 | | 11 | | 5 | | 5 | 7 | |
| 100 | 21 | 2 | | 5 | | | 17 | 10 | 24 | | 7 | | 15 | | 5 | | 5 | 10 | |
| 101 | 7 | 1 | | 5 | | | 17 | 11 | 24 | | 29 | | 11 | | 5 | | 6 | 9 | |
| 102 | 27 | 1 | | 5 | | | 16 | 16 | 21 | | 24 | | 6 | | 5 | | 5 | 5 | |
| 103 | 31 | 1 | | 6 | | | 5 | 11 | 7 | | 32 | | 10 | | 5 | | 5 | 16 | |
| 104 | 35 | | 5 | 5 | | | 25 | 7 | 27 | | 26 | | 21 | | 5 | | 6 | 19 | |
| 105 | 25 | 2 | | 5 | | | 24 | 10 | 31 | | 24 | | 18 | | 5 | | 12 | 14 | |
| 106 | 23 | 1 | | 5 | | | 26 | 22 | 35 | | 28 | | 22 | | 5 | ŀ | 12 | 15 | |
| 107 | 25 7 | 2 | | 5 | | | 20 | 19 | 25 | | 8 | | 5 | | 6 | | 5 | 7 | |
| 108 | | 1 | | 5 | | | 15 | 23 | 23 | | 23 | + | 26 | | 5 | | 5 15 | 11 | |
| 109 | 22 | 1 | | 25 | | | 14 | 5 24 | 25 | | 25 11 | | 5 13 | + | 5 | | 15 | 5 | |
| 110 | 24 | 1. | | 23 | | | 5 | | 7 | | | | | + | 5 | | 18 | 11 | |
| 111 112 | 14 | | 6 | 5 | | | 18 | 6 13 | 22 24 | -+ | 42 | - | 9 | + | 5 | ł | 25 19 | 12 | |
| 112 | 43 23 | 1 | | 25 22 | | | 13 19 | 13 7 | 24 14 | -+ | 21 7 | | 11 15 | - | 5 5 | | 79 19 | 13 14 | |
| 113 | <u>23</u> | 1 | | 25 | | | 23 | 11 | 43 | -+ | 5 | | <u> 15</u> | - | 5 5 | | 21 | 15 | |
| 115 | 5 | 2 | | 16 | | | 23 18 | 16 | 23 | -+ | 5 | | 12 | + | 5 | l | | | |
| 116 | 5 | 1 | | | | | 20 | 16 5 | 23 6 | -+ | 24 | | 14 | + | 5 8 | l | 11 13 | 11 10 | |
| TTP | 5 | | | 5 | | | 20 | 5 | b | | 24 | | 14 | | 8 | | Τζ | TU | |

| 117 | 25 | 19 | 21 | | 16 | 13 | 5 | 25 | 9 | 5 | 12 | 11 | |
|-----|----|----|----|--|----|----|----|----|----|----|----|----|---|
| 118 | 25 | 16 | 18 | | 15 | 14 | 5 | 27 | 25 | 5 | 11 | | |
| 119 | 25 | 14 | 17 | | 10 | 9 | 25 | | 20 | 5 | 15 | | |
| 120 | | | 23 | | | 25 | 25 | | | 5 | 8 | | |
| 121 | | | 26 | | | | 25 | | | 5 | 15 | | |
| 122 | | | 21 | | | | | | | 6 | 17 | | |
| 123 | | | 7 | | | | | | | 5 | 14 | | • |
| 124 | | | 28 | | | | | | | 5 | 5 | | |
| 125 | | | 17 | | | | | | | 5 | 28 | | |
| 126 | | | 27 | | | | | | | 5 | 5 | | |
| 127 | | | 5 | | | | | | | 5 | 10 | | |
| 128 | | | 46 | | | | | | | 5 | 6 | | |
| 129 | | | 5 | | | | | | | 5 | 5 | | |
| 130 | | | 18 | | | | | | | 7 | 20 | | |
| 131 | | | 7 | | | | | | | 21 | 21 | | |
| 132 | | | 5 | | | | | | | 27 | 16 | | |
| 133 | | | 5 | | | | | | | 7 | | | |
| 134 | | | 25 | | | | | | | 21 | | | |
| 135 | | | 18 | | | | | | | 18 | | | |
| 136 | | | 21 | | | | | | | 19 | | | |
| 137 | | | | | | | | | | 5 | | | |
| 138 | | | | | | | | | | 15 | | | |
| 139 | | | | | | | | | | 23 | | | |
| 140 | | | | | | | | | | 14 | | | |
| 141 | | | | | | | | | | 9 | | | |
| 142 | | | | | | | | | | 16 | | | |
| 143 | | | | | | | | | | 8 | | | |
| 144 | | | | | | | | | | 10 | | | |
| 145 | | | | | | | | | | 7 | | | |
| 146 | | | | | | | | | | 15 | | | |
| 147 | | | | | | | | | | 8 | | | |
| 148 | | | | | | | | | | 20 | | | |
| 149 | | | | | | | | | | 5 | | | |
| 150 | | | | | | | | | | 5 | | | |
| 151 | | | | | | | | | | 5 | | | |
| 152 | | | | | | | | | | 19 | | | |
| 153 | | | | | | | | | | 7 | | | |
| 154 | | | | | | | | | | 17 | | | |

The values of k when they exceed r (4-bug, 10 EFFs)

| | | | _ | | | | | | | | ceeu / | | | _ | | | | | _ | |
|----|---------|-------|-------|---------|-------|----------|---------|-------|-------|---------|--------|-------|--------|-------|-----|---------|-----|----------|-------|----------|
| | EFF10-8 | ` ' | | 4 (160) | | 82 (174) | EFF8-13 | | | 6 (159) | | | EFF5-9 | | | 8 (171) | | 19 (171) | | 38 (185) |
| | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k>r | k < r | k>r | k < r | k > r | k < r |
| 1 | 5 | 2 | 8 | 2 | 9 | 2 | 10 | 3 | 5 | 3 | 5 | 2 | 7 | 3 | 5 | 3 | | 3 | 5 | 2 |
| 2 | 6 | 3 | 5 | 3 | 20 | 3 | 13 | 3 | 6 | 3 | 9 | 3 | 5 | 3 | 9 | 3 | | 2 | 5 | 3 |
| 3 | 5 | 3 | 5 | 2 | 8 | 2 | 18 | 3 | 5 | 3 | 7 | 3 | 9 | 3 | 7 | 3 | | 3 | 6 | |
| 4 | 7 | 3 | 14 | 3 | 14 | 3 | 11 | 1 | 5 | 3 | 5 | 3 | 8 | 3 | 6 | 3 | | 3 | 5 | |
| 5 | 5 | 3 | 14 | 3 | 5 | 3 | 8 | 2 | 6 | 3 | 7 | 3 | 7 | 3 | 9 | 3 | | 3 | 7 | 3 |
| 6 | 6 | 3 | 9 | 3 | 6 | 3 | 6 | 2 | 7 | 3 | 6 | 3 | 6 | 3 | 10 | 3 | | 2 | 6 | |
| 7 | 5 | 3 | 8 | 2 | 8 | 2 | 8 | 2 | 19 | 3 | 9 | 3 | 8 | 3 | 18 | 2 | 6 | 3 | 6 | 2 |
| 8 | 6 | 3 | 6 | 2 | 5 | 2 | 15 | 2 | 6 | 2 | 8 | 3 | 10 | 3 | 18 | 2 | 5 | 3 | 6 | 2 |
| 9 | 5 | 3 | 7 | 2 | 6 | 2 | 11 | 2 | 6 | 3 | 8 | 2 | 6 | 3 | 8 | 3 | 9 | 3 | 5 | 2 |
| 10 | 5 | 3 | 7 | 3 | 9 | 2 | 6 | 2 | 7 | 3 | 6 | 3 | 10 | 2 | 5 | 2 | 8 | 3 | 7 | 2 |
| 11 | 5 | 3 | 7 | 3 | 16 | 2 | 10 | 3 | 8 | 2 | 7 | 2 | 9 | 3 | 17 | 2 | 8 | 3 | 6 | 2 |
| 12 | 5 | 3 | 6 | 2 | 5 | 2 | 9 | 1 | 5 | 2 | 9 | 2 | 8 | 2 | 6 | 1 | 8 | 2 | 6 | 2 |
| 13 | 5 | 2 | 6 | 2 | 5 | 2 | 9 | 3 | 7 | 1 | 9 | 3 | 9 | 3 | 5 | 3 | 5 | 3 | 11 | 3 |
| 14 | 5 | 3 | 10 | 3 | 9 | 2 | 14 | 2 | 6 | 3 | 8 | 3 | 8 | 3 | 6 | 3 | 5 | 3 | 5 | 3 |
| 15 | 5 | 3 | 6 | 3 | 11 | 3 | 12 | 2 | 6 | 3 | 6 | 2 | 5 | 3 | 6 | 3 | 7 | 3 | 15 | 3 |
| 16 | 6 | 2 | 13 | 2 | 5 | 2 | 5 | 2 | 8 | 2 | 6 | 3 | 6 | 2 | 5 | 3 | 8 | 2 | 6 | 2 |
| 17 | 5 | 3 | 10 | 2 | 9 | 2 | 14 | 3 | 7 | 3 | 5 | 3 | 9 | 3 | 7 | 3 | 5 | 2 | 7 | 2 |
| 18 | 5 | 3 | 6 | 2 | 6 | 3 | 7 | 2 | 5 | 3 | 7 | 3 | 7 | 2 | 15 | 3 | 6 | 2 | 6 | 2 |
| 19 | 6 | 2 | 6 | 3 | 12 | 3 | 6 | 3 | 6 | 3 | 5 | 3 | 5 | 3 | 5 | 2 | 6 | 3 | 14 | 3 |
| 20 | 5 | 2 | 5 | 3 | 5 | 2 | 7 | 3 | 5 | 3 | 8 | 3 | 7 | 1 | 5 | 2 | 5 | 1 | 5 | 3 |
| 21 | 5 | 3 | 5 | 3 | 5 | 2 | 6 | 2 | 12 | 3 | 11 | 2 | 7 | 1 | 5 | 3 | 7 | 2 | 17 | 3 |
| 22 | 5 | 2 | 5 | 3 | 15 | 2 | 5 | 3 | 5 | 2 | 5 | 3 | 6 | 1 | 9 | 3 | 6 | 3 | 25 | 2 |
| 23 | 5 | 3 | 6 | 3 | 5 | 3 | 5 | 1 | 5 | 3 | 6 | 3 | 7 | 2 | 5 | 3 | 9 | 1 | 14 | 3 |
| 24 | 5 | 3 | 6 | 3 | 5 | 3 | 10 | 3 | 5 | 3 | 5 | 3 | 7 | 3 | 5 | 3 | 6 | 2 | 10 | 2 |
| 25 | 5 | 3 | 10 | 3 | 6 | 3 | 8 | 2 | 8 | 3 | 5 | 2 | 5 | 3 | 6 | 3 | 6 | 1 | 17 | 2 |
| 26 | 5 | 3 | 5 | 3 | 5 | 3 | 8 | 3 | 12 | 3 | 6 | 1 | 9 | 3 | 5 | 3 | 15 | 3 | 7 | 3 |
| 27 | 5 | 3 | 6 | 2 | 8 | 3 | 7 | 2 | 6 | 3 | 5 | 1 | 6 | 2 | 11 | 3 | 12 | 3 | 20 | 3 |
| 28 | 5 | 2 | 5 | 2 | 5 | 3 | 6 | 2 | 5 | 2 | 8 | 1 | 7 | 2 | 5 | 3 | 7 | 3 | 10 | 2 |
| 29 | 5 | 2 | 6 | 2 | 8 | 2 | 12 | 2 | 5 | 2 | 8 | 1 | 9 | 2 | 11 | 2 | 7 | 2 | 9 | 1 |
| 30 | 5 | 3 | 5 | 3 | 5 | 2 | 10 | 3 | 5 | 1 | 7 | 2 | 12 | 3 | 5 | 3 | 9 | 2 | 8 | 3 |
| 31 | 5 | 3 | 5 | 1 | 7 | 2 | 7 | 3 | 5 | 1 | 5 | 2 | 5 | 3 | 18 | 3 | 8 | 2 | 5 | 2 |
| 32 | 5 | 2 | 5 | 3 | 5 | 1 | 11 | 3 | 5 | 1 | 9 | 1 | 13 | 3 | 11 | 3 | 7 | 3 | 9 | 2 |
| 33 | 5 | 3 | 6 | 2 | 8 | 3 | 11 | 3 | 5 | 2 | 9 | 3 | 9 | 1 | 7 | 3 | 5 | 2 | 10 | 2 |
| 34 | 5 | 3 | 8 | 2 | 6 | 2 | 11 | 3 | 6 | 3 | 7 | 2 | 7 | 2 | 12 | 3 | 9 | 3 | 9 | 3 |
| 35 | 5 | 3 | 15 | 3 | 5 | 3 | 5 | 3 | 5 | 3 | 9 | 2 | 11 | 2 | 5 | 1 | 7 | 3 | 12 | 1 |
| 36 | 5 | 3 | 7 | 3 | 10 | 2 | 15 | 3 | 7 | 3 | 9 | 2 | 12 | 2 | 6 | 1 | 9 | 2 | 16 | 2 |

| 37 | 5 | 3 | 14 | 3 | 7 | 2 | 6 | 2 | 6 | 2 | 8 | 2 | 8 | 3 | 7 | 1 | 5 | 3 | 5 | 2 |
|----|---|---|----|---|----|---|----|---|---|---|---|---|----|---|----|---|----|---|----|-----------------------|
| 38 | 5 | 3 | 11 | 3 | 8 | 2 | 6 | 3 | 5 | 2 | 7 | 3 | 8 | 3 | 7 | 2 | 10 | 3 | 23 | 1 |
| 39 | 5 | 3 | 7 | 3 | 7 | 3 | 5 | 3 | 5 | 2 | 6 | 2 | 6 | 3 | 15 | 3 | 9 | 3 | 5 | 1 |
| 40 | 5 | 1 | 8 | 3 | 5 | 3 | 11 | 3 | 9 | 3 | 7 | 3 | 13 | 1 | 6 | 2 | 5 | 3 | 17 | 1 |
| 41 | 5 | 1 | 8 | 3 | 6 | 2 | 9 | 3 | 6 | 3 | 7 | 2 | 7 | 3 | 9 | 2 | 5 | 3 | 20 | |
| 42 | 5 | 1 | 7 | 3 | 5 | 3 | 6 | 2 | 6 | 3 | 5 | 3 | 7 | 2 | 13 | 2 | 5 | 2 | 11 | 2 |
| 43 | 5 | 1 | 6 | 3 | 5 | 3 | 6 | 2 | 7 | 1 | 7 | 3 | 5 | 3 | 6 | 3 | 5 | 1 | 5 | 2 2 2 |
| 44 | 5 | 1 | 11 | 2 | 5 | 3 | 7 | 3 | 6 | 3 | 9 | 3 | 5 | 3 | 5 | 3 | 5 | 2 | 6 | 2 |
| 45 | 5 | 3 | 10 | 2 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 2 | 5 | 3 | 9 | 2 | 7 | 2 | 5 | 2 |
| 46 | 5 | 2 | 9 | 3 | 7 | 2 | 7 | 3 | 6 | 2 | 8 | 2 | 20 | 3 | 12 | 3 | 5 | 2 | 6 | 2 |
| 47 | 5 | 2 | 16 | 2 | 7 | 3 | 7 | 3 | 5 | 2 | 5 | 2 | 6 | 3 | 11 | 2 | 6 | 2 | 11 | 2 |
| 48 | 5 | 2 | 11 | 3 | 18 | 2 | 6 | 3 | 7 | 2 | 8 | 2 | 5 | 3 | 14 | 3 | 6 | 3 | 17 | 2 |
| 49 | | 2 | 5 | 3 | 13 | 2 | 6 | 3 | 7 | 3 | 8 | 3 | 12 | 3 | 5 | 1 | 5 | 2 | 8 | 2 2 3 2 3 |
| 50 | | 2 | 5 | 2 | 16 | 3 | 6 | 2 | 5 | 3 | 8 | 2 | 5 | 3 | 5 | 3 | 6 | 3 | 6 | 2 |
| 51 | | 2 | 11 | 3 | 11 | 2 | 7 | 3 | 5 | 3 | 8 | 1 | 7 | 3 | 16 | 3 | 5 | 2 | 5 | |
| 52 | | 2 | | 2 | 6 | 2 | 6 | 3 | 5 | 3 | 5 | 2 | 14 | 3 | 11 | 2 | 5 | 2 | 6 | 2 |
| 53 | | 3 | | 2 | 7 | 2 | 18 | 3 | 5 | 3 | 7 | 2 | 5 | 3 | 6 | 3 | 10 | 2 | 6 | 2 |
| 54 | | 3 | | 2 | 8 | 2 | 6 | 3 | 6 | 3 | 5 | 2 | 5 | 2 | 9 | 2 | | 1 | 13 | 2 1 |
| 55 | | 2 | | 3 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 2 | 8 | 3 | 5 | 2 | | 1 | | 2 |
| 56 | | 1 | | 3 | 17 | 3 | 8 | 3 | 5 | 3 | 6 | 2 | 5 | 3 | 5 | 3 | | 3 | | 2 |
| 57 | | 2 | | 3 | 5 | 3 | 10 | 3 | 5 | 2 | 5 | 3 | 5 | 3 | 5 | 3 | | 3 | | 2 2 2 |
| 58 | | 2 | | 3 | 5 | 3 | 5 | 3 | 5 | 2 | 7 | 2 | 6 | 2 | 5 | 3 | | 3 | | 2 |
| 59 | | 2 | | 3 | 6 | 3 | 6 | 3 | 5 | 2 | 9 | 2 | 5 | 3 | 5 | 1 | | 3 | | 2 2 2 |
| 60 | | 3 | | 3 | 5 | 3 | 8 | 3 | 5 | 3 | 7 | 1 | 5 | | 5 | 2 | | 3 | | 2 |
| 61 | | 2 | | 2 | 15 | 1 | 42 | 3 | 5 | 2 | 5 | 1 | 5 | | 5 | 2 | | 3 | | 2 |
| 62 | | 2 | | 2 | 12 | 3 | 5 | 2 | 5 | 3 | 5 | 3 | 5 | | 5 | 3 | | 2 | | 2 |
| 63 | | 3 | | 3 | | 3 | 7 | 2 | 5 | 3 | 5 | 2 | 5 | | 5 | 2 | | 2 | | 2 |
| 64 | | 2 | | 3 | | 3 | 6 | 3 | 5 | 2 | 6 | 3 | 5 | | 5 | 3 | | 2 | | 1 |
| 65 | | 2 | | 3 | | 3 | 6 | 3 | 5 | 3 | 6 | 3 | 5 | | 5 | 2 | | 1 | | 1 |
| 66 | | 2 | | 3 | | 3 | 6 | 3 | 5 | 2 | 5 | 3 | 5 | | 5 | 3 | | 2 | | 2 3 3 2 3 |
| 67 | | 2 | | 2 | | 3 | 9 | 3 | 5 | 2 | 5 | 1 | 5 | | 5 | 2 | | 3 | | 3 |
| 68 | | 3 | | 3 | | 2 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | | 5 | 2 | | 3 | | 3 |
| 69 | | 2 | | 3 | | 3 | 11 | 2 | 5 | 2 | 6 | 2 | 7 | | 5 | 3 | | 3 | | 2 |
| 70 | | 3 | | 3 | | 3 | 11 | 2 | 5 | 3 | 5 | 2 | 5 | | 5 | 2 | | 2 | | 3 |
| 71 | | 2 | | 3 | | 2 | 15 | 3 | 5 | 3 | 5 | 3 | 5 | | 5 | 1 | | 2 | | 3 2 2 |
| 72 | | 3 | | 3 | | 3 | 5 | 2 | 5 | 2 | 5 | 3 | 5 | | 5 | 1 | | 3 | | 2 |
| 73 | | 3 | | 3 | | 2 | 9 | 2 | 5 | 3 | 5 | 3 | 5 | | 5 | | | 3 | | 2 |
| 74 | | 3 | | 2 | | 2 | 5 | 2 | 5 | 3 | 5 | 3 | 6 | | 5 | | | 3 | | 2 |
| 75 | | 2 | | 2 | | 2 | 5 | 3 | 5 | 3 | 5 | 2 | 5 | | 5 | | | 3 | | 2 |
| 76 | | 2 | | 2 | | 3 | 8 | 2 | 6 | 2 | 5 | 2 | 5 | | 5 | | | 3 | | 1 |

| 77 | 2 | 3 | 3 | 5 | 2 | 5 | 2 | 5 | 1 | 9 | 5 | | 2 | 2 |
|-----|---|---|---|----|---|----|---|---|---|-----|----|--|---|--|
| 78 | 2 | 3 | 3 | 15 | 2 | 6 | 1 | 5 | 1 | 9 | 5 | | 2 | 3 3 3 3 3 3 3 2 2 2 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 |
| 79 | 3 | 3 | 3 | 7 | 2 | 5 | | 5 | | 5 | 5 | | 1 | 2 |
| 80 | 3 | 3 | 2 | 5 | 2 | 11 | | 5 | | 7 | 5 | | 3 | 3 |
| 81 | 2 | 3 | 2 | 5 | 2 | 8 | | 5 | | 15 | 5 | | 3 | 3 |
| 82 | 1 | 3 | 3 | | 2 | Ū | | 5 | | 19 | 5 | | 3 | 3 |
| 83 | 1 | 3 | 3 | | 3 | | | 6 | | 5 | 5 | | 3 | 3 |
| 84 | 2 | 3 | 3 | | 3 | | | 5 | | 9 | 5 | | 3 | 3 |
| 85 | 2 | 3 | 3 | | 3 | | | 5 | | _ | 5 | | 2 | 2 |
| 86 | 2 | 3 | 3 | | 3 | | | 5 | | | 5 | | 2 | 3 |
| 87 | 2 | 2 | 2 | | 2 | | | 5 | | | 6 | | 3 | 2 |
| 88 | 3 | 3 | 2 | | 2 | | | 5 | | | 5 | | 2 | 2 |
| 89 | 2 | 3 | 3 | | 3 | | | 5 | | | 5 | | 2 | 2 |
| 90 | 2 | 3 | 2 | | 1 | | | 6 | | | 5 | | 3 | 2 |
| 91 | 1 | 3 | 3 | | | | | 5 | | | 5 | | 3 | 3 |
| 92 | 2 | 3 | 3 | | | | | 5 | | | 12 | | 3 | 2 |
| 93 | 2 | 3 | 3 | | | | | 6 | | | 13 | | 3 | 1 |
| 94 | 3 | 3 | 3 | | | | | 5 | | | 5 | | 3 | 2 |
| 95 | 2 | 3 | 3 | | | | | 7 | | | 5 | | 3 | 3 |
| 96 | 3 | 3 | 3 | | | | | | | | 5 | | 3 | 3 |
| 97 | 3 | 3 | 2 | | _ | | | | | | 5 | | 3 | 2 |
| 98 | 3 | 3 | 3 | | | | | | | , i | 5 | | 3 | 3 |
| 99 | 2 | 3 | 3 | | | | | | | | 5 | | 3 | 2 |
| 100 | 3 | 2 | 3 | | | | | | | | | | 3 | 3 |
| 101 | 2 | 2 | 3 | | | | | | | | | | 2 | 2 |
| 102 | 3 | 3 | 2 | | | | | | | | | | 3 | 2 |
| 103 | 3 | 3 | 2 | | | | | | | | | | 3 | 3 |
| 104 | 3 | 3 | 3 | | | | | | | | | | 3 | 2 |
| 105 | 3 | 3 | 2 | | | | | | | | | | 2 | 2 |
| 106 | 3 | 3 | 3 | | | | | | | | | | 2 | 3 |
| 107 | 3 | 3 | 2 | | | | | | | | | | 3 | 3 |
| 108 | 2 | 3 | 2 | | | | | | | | | | 3 | 3 |
| 109 | 1 | 3 | 2 | | | | | | | | | | 2 | 3 |
| 110 | 1 | | 2 | | | | | | | | | | 3 | 3 |
| 111 | 1 | | 3 | | | | | | | | | | 3 | 3 |
| 112 | | | 2 | | | | | | | | | | 3 | 3 |
| 113 | | | | | | | | | | | | | 3 | 2 |
| 114 | | | | | | | | | | | | | 3 | 3 |
| 115 | | | | | | | | | | | | | 2 | 3 |
| 116 | | | | | | | | | | | | | 3 | 3 |

| 117 | | | | | | | | | 1 | 3 |
|-----|--|--|--|--|--|--|--|--|---|---|
| 118 | | | | | | | | | 3 | 3 |
| 119 | | | | | | | | | | 3 |
| 120 | | | | | | | | | | 3 |
| 121 | | | | | | | | | | 2 |
| 122 | | | | | | | | | | 2 |
| 123 | | | | | | | | | | 3 |
| 124 | | | | | | | | | | 3 |
| 125 | | | | | | | | | | 2 |
| 126 | | | | | | | | | | 3 |
| 127 | | | | | | | | | | 3 |
| 128 | | | | | | | | | | 3 |
| 129 | | | | | | | | | | 3 |
| 130 | | | | | | | | | | 3 |
| 131 | | | | | | | | | | 2 |

The values of k when they exceed r (5-bug, 12 groups of REFs)

| | Group | 1 (185) | Group | 2 (182) | Group | 3 (178) | Group | 4 (178) | Group | 5 (185) | Group | 6 (193) | Group | 7 (183) | Group | 8 (189) | Group | 9 (193) | Group1 | 10 (171) | Group1 | 11 (175) | Group12 (178) |
|----|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--------|----------|--------|----------|---------------|
| | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r k < r |
| 1 | 45 | 3 | 39 | 2 | 52 | 2 | 8 | 3 | 40 | 2 | 15 | 4 | 43 | 3 | 43 | 4 | 13 | 4 | 25 | 3 | 14 | 4 | 18 2 |
| 2 | 44 | 3 | 37 | 1 | 48 | 2 | 8 | 4 | 38 | 1 | 15 | 4 | 46 | 3 | 46 | 1 | 15 | 4 | 24 | 4 | 18 | 4 | 12 3 |
| 3 | 48 | 3 | 36 | 1 | 44 | 2 | 12 | 4 | 40 | 2 | 29 | 4 | 47 | 3 | 47 | 2 | 29 | 3 | 15 | 4 | 12 | 4 | 14 3 |
| 4 | 47 | 4 | 36 | 1 | 52 | 1 | 7 | 3 | 42 | 2 | 16 | | 45 | 4 | 44 | 2 | 16 | 2 | 25 | 4 | 13 | 3 | 21 3 |
| 5 | 52 | 4 | 43 | 2 | 54 | 3 | 7 | 4 | 49 | 2 | 16 | 4 | 48 | 2 | 49 | 4 | 16 | 3 | 27 | 4 | 17 | 4 | 18 3 |
| 6 | 47 | 2 | 38 | 2 | 48 | 2 | 7 | 4 | 42 | 2 | 9 | 2 | 46 | 4 | 46 | 4 | 8 | 2 | 18 | 3 | 14 | 3 | 12 3 |
| 7 | 46 | 4 | 39 | 3 | 47 | 4 | 7 | 4 | 43 | 3 | 8 | 4 | 47 | 4 | 46 | 4 | 8 | 4 | 18 | 1 | 13 | 3 | 12 4 |
| 8 | 46 | 4 | 39 | 3 | 48 | 2 | 6 | 2 | 43 | 3 | 8 | 3 | 47 | 4 | 46 | 4 | 8 | 3 | 18 | 3 | 13 | 4 | 12 3 |
| 9 | 45 | 4 | 39 | 2 | 46 | 2 | 7 | 3 | 41 | 2 | 6 | 3 | 45 | 3 | 46 | 1 | 6 | 3 | 17 | 3 | 14 | 4 | 15 3 |
| 10 | 44 | 4 | 37 | 3 | 46 | 3 | 6 | 2 | 38 | 3 | 15 | 4 | 46 | 3 | 46 | 4 | 15 | 4 | 25 | 3 | 18 | 3 | 13 3 |
| 11 | 46 | 3 | 41 | 3 | 53 | 4 | 7 | 3 | 42 | 3 | 13 | 2 | 45 | 4 | 45 | 2 | 13 | 2 | 26 | 3 | 14 | 3 | 19 3 |
| 12 | 38 | 3 | 34 | 4 | 44 | 3 | 12 | 2 | 36 | 4 | 10 | 2 | 38 | 4 | 34 | 4 | 8 | 2 | 25 | 3 | 18 | 4 | 20 3 |
| 13 | 33 | 4 | 45 | 4 | 48 | 1 | 7 | 1 | 45 | 4 | 20 | 3 | 30 | 3 | 31 | 4 | 20 | 3 | 32 | 2 | 18 | 2 | 18 4 |
| 14 | 45 | 4 | 37 | 3 | 61 | 4 | 7 | 2 | 38 | 3 | 10 | 3 | | 3 | 43 | 3 | 8 | 3 | 23 | 3 | 13 | 3 | 12 3 |
| 15 | 33 | 3 | 44 | 4 | 49 | 3 | 8 | 2 | 45 | 4 | 20 | 3 | 30 | 3 | 31 | 3 | 20 | 3 | 32 | 3 | 18 | 2 | 20 4 |
| 16 | 39 | 3 | 42 | 4 | 46 | 4 | 9 | 4 | 46 | 4 | 11 | 2 | 39 | 3 | 35 | 4 | 9 | 2 | 34 | 3 | 24 | 3 | 28 4 |
| 17 | 32 | 3 | 41 | 4 | 45 | 4 | 8 | 2 | 41 | 4 | 13 | 3 | 30 | 2 | 31 | 3 | 13 | 3 | 31 | 3 | 14 | 3 | 22 4 |
| 18 | 46 | 3 | 42 | 3 | 46 | 2 | 11 | 2 | 43 | 4 | 14 | 3 | 43 | 3 | 45 | 3 | 14 | 3 | 26 | 3 | 17 | 4 | 15 4 |
| 19 | 35 | 2 | 43 | 4 | 49 | 3 | 6 | 2 | 42 | 4 | 11 | 3 | 32 | 3 | 31 | 2 | 11 | 3 | 19 | 3 | 15 | 3 | 16 2 |
| 20 | 44 | 3 | 42 | 4 | 44 | 4 | 6 | 2 | 41 | 3 | 18 | 4 | 47 | 4 | 47 | 3 | 18 | 4 | 16 | 2 | 21 | 3 | 12 4 |
| 21 | 47 | 3 | 42 | 4 | 47 | 4 | 11 | 2 | 45 | 3 | 10 | 2 | 40 | 3 | 45 | 3 | 10 | 2 | 10 | 3 | 10 | 4 | 6 2 |
| 22 | 47 | 4 | 41 | 4 | 50 | 3 | 8 | 2 | 43 | 4 | 12 | 3 | 43 | 3 | 45 | 2 | 11 | 3 | 15 | 3 | 16 | 4 | 16 3 |
| 23 | 44 | 3 | 42 | 3 | 54 | 4 | 14 | 3 | 42 | 2 | 13 | 3 | 45 | 3 | 47 | 2 | 13 | 3 | 16 | 3 | 15 | 4 | 16 3 |
| 24 | 43 | 3 | 40 | 3 | 45 | 4 | 7 | 4 | 40 | 2 | 11 | 3 | 42 | 3 | 46 | 2 | 11 | 3 | 22 | 2 | 21 | 4 | 14 4 |
| 25 | 35 | 3 | 34 | 4 | 41 | 2 | 17 | 3 | 34 | 3 | 8 | 2 | 35 | 2 | 36 | 4 | 8 | 2 | 19 | 2 | 14 | 3 | 14 3 |
| 26 | 40 | 3 | 37 | 3 | 41 | 2 | 6 | 3 | 38 | 3 | 6 | 3 | 40 | 2 | 42 | 3 | 6 | 3 | 22 | 3 | 10 | 3 | 9 3 |
| 27 | 38 | 2 | 30 | 3 | 37 | 4 | 11 | 3 | 36 | 3 | 6 | 3 | 39 | 3 | 38 | 3 | 6 | 3 | 19 | 3 | 13 | 4 | 8 3 |
| 28 | 36 | 2 | 48 | 3 | | 2 | 6 | 3 | | 3 | 8 | 3 | 33 | 3 | 35 | 4 | 7 | 3 | 32 | 4 | 8 | 4 | 9 3 |
| 29 | 39 | 3 | 36 | 2 | 58 | 3 | 8 | 3 | 39 | 2 | 18 | 2 | 39 | 3 | 40 | 4 | 18 | 3 | 24 | 3 | 16 | 3 | 11 3 |
| 30 | 39 | 3 | 36 | 3 | 55 | 3 | 7 | 3 | 39 | 3 | 6 | 2 | 39 | 3 | 39 | 2 | 6 | 2 | 14 | 2 | 13 | 1 | 7 2 |
| 31 | 42 | 3 | 37 | 3 | 60 | 4 | 6 | 3 | 41 | 3 | 6 | 4 | 42 | 4 | 45 | 2 | 6 | 4 | 21 | 3 | 8 | 4 | 10 2 |
| 32 | 51 | 3 | 40 | 3 | 54 | 3 | 6 | 3 | 45 | 3 | 12 | 4 | 54 | 3 | 54 | 2 | 12 | 4 | 30 | 2 | 22 | 3 | 18 3 |
| 33 | 43 | 4 | 42 | 4 | 56 | 4 | 8 | 2 | 39 | 4 | 10 | 3 | 42 | 3 | 41 | 3 | 10 | 3 | 9 | 3 | 10 | 3 | 6 3 |
| 34 | 49 | 3 | 41 | 4 | 51 | 2 | 8 | 2 | 44 | 4 | 17 | 2 | 45 | 3 | 48 | 3 | 17 | 2 | 21 | 3 | 24 | 3 | 17 3 |
| 35 | 34 | 3 | 43 | 3 | 48 | 2 | 6 | 3 | 44 | 4 | 7 | 2 | 29 | 3 | 29 | 3 | 7 | 2 | 28 | 2 | 27 | 4 | 15 3 |
| 36 | 46 | 3 | 41 | 4 | 54 | 3 | 8 | 3 | 43 | 4 | 17 | 4 | 45 | 2 | 45 | 4 | 17 | 3 | 16 | 2 | 16 | 3 | 23 2 |
| 37 | 34 | 3 | 43 | 2 | 43 | 3 | 14 | 2 | 44 | 3 | 24 | 3 | 32 | 2 | 32 | 3 | 20 | 3 | 38 | 3 | 17 | 2 | 22 2 |

| 38 | 50 | 2 | 42 | 3 | 54 | 3 | 8 | 2 | 44 | 2 | 14 | 2 | 48 | 2 | 49 | 3 | 14 | 2 | 11 | 2 | 10 | 3 | 8 4 |
|----|----|---|----|---|----|---|---|---|----|---|----|---|----|---|----|---|----|---|-----|---|----|---|------|
| 39 | 46 | 2 | 42 | 4 | 51 | 3 | 8 | 3 | 43 | 3 | 12 | 3 | 46 | 2 | 48 | 3 | 10 | 3 | 27 | 3 | 14 | 3 | 15 3 |
| 40 | 42 | 2 | 38 | 3 | | 4 | 8 | 3 | | 4 | 19 | 3 | 41 | 3 | 42 | 3 | 16 | 3 | 35 | 2 | 23 | 4 | 23 3 |
| 41 | 44 | 2 | 40 | 3 | | 3 | 8 | 3 | 41 | 3 | 16 | 3 | 43 | 3 | 43 | 2 | 15 | 3 | 27 | 3 | 16 | 3 | 17 3 |
| 42 | 48 | 3 | 40 | 3 | | 4 | 9 | 4 | 43 | 3 | 12 | 3 | 47 | 3 | 47 | 2 | 12 | 3 | 23 | 2 | 14 | 3 | 11 3 |
| 43 | 44 | 3 | 43 | 3 | | 3 | 6 | 3 | | 3 | 8 | 4 | 40 | 2 | 44 | 2 | 7 | 4 | 21 | 3 | 12 | 3 | 11 3 |
| 44 | 51 | 3 | 31 | 3 | | 3 | 6 | 3 | 42 | 3 | 10 | 3 | 50 | 3 | 51 | 3 | 10 | 3 | 18 | 2 | 12 | 2 | 16 3 |
| 45 | 41 | 2 | 37 | 3 | | 3 | 6 | 4 | 38 | 3 | 12 | 2 | 40 | 3 | 40 | 3 | 12 | 3 | 17 | 2 | 13 | 4 | 10 4 |
| 46 | 41 | 3 | 39 | 4 | 50 | 3 | 6 | 4 | 39 | 3 | 19 | 2 | 41 | 3 | 43 | 4 | 19 | 2 | 39 | 2 | 24 | 4 | 17 2 |
| 47 | 40 | 3 | 31 | 2 | 40 | 3 | 6 | 3 | 36 | 4 | 17 | 2 | 41 | 3 | 39 | 4 | 17 | 2 | 17 | 3 | 16 | 2 | 13 2 |
| 48 | 22 | 3 | 32 | 2 | 44 | 3 | 6 | 2 | 33 | 2 | 9 | 3 | 20 | 3 | 15 | 2 | 9 | 2 | 32 | 2 | 15 | 4 | 17 2 |
| 49 | 19 | 3 | 6 | 2 | 16 | 3 | 6 | 1 | 8 | 2 | 15 | 1 | 19 | 2 | 15 | 2 | 15 | 3 | 22 | 4 | 15 | 3 | 20 2 |
| 50 | 26 | 3 | 46 | 2 | 50 | 3 | 6 | 2 | 40 | 2 | 12 | 1 | 23 | 4 | 19 | 3 | 11 | 1 | 12 | 3 | 13 | 3 | 16 3 |
| 51 | 21 | 2 | 39 | 3 | 93 | 3 | 6 | 4 | 36 | 2 | 7 | 2 | 21 | 4 | 14 | 3 | 7 | 1 | 6 | 2 | 13 | 4 | 16 2 |
| 52 | 25 | 4 | 42 | 4 | 54 | 4 | 6 | 3 | | 3 | 7 | 3 | 23 | 4 | 20 | 3 | 7 | 1 | 14 | 4 | 10 | 4 | 13 3 |
| 53 | 16 | 4 | 8 | 3 | 22 | 3 | | 3 | 7 | 4 | 8 | 2 | 16 | 3 | 11 | 4 | 8 | 3 | 6 | 3 | 11 | 2 | 15 2 |
| 54 | 26 | 4 | 38 | 2 | 49 | 4 | | 2 | 35 | 3 | 7 | 2 | 25 | 2 | 25 | 4 | 6 | 3 | 10 | | 18 | 4 | 15 4 |
| 55 | 9 | 3 | 6 | 4 | 7 | 4 | | 2 | 6 | 2 | 11 | 3 | 11 | 4 | 14 | 3 | 11 | 2 | 8 | | 7 | 4 | 22 4 |
| 56 | 9 | 2 | 26 | 4 | 23 | 3 | | 2 | 27 | 4 | 15 | 2 | 9 | 3 | 11 | 3 | 15 | 1 | 34 | | 9 | 4 | 16 2 |
| 57 | 16 | 4 | 32 | 3 | 40 | 4 | | 3 | 31 | 4 | 6 | 3 | 16 | 2 | 20 | 4 | 6 | 2 | 6 | | 9 | 4 | 22 2 |
| 58 | 19 | 3 | 23 | 4 | 7 | 4 | | 3 | 25 | 4 | 9 | 3 | 17 | 4 | 21 | 4 | 7 | 3 | 7 | | 6 | 4 | 15 2 |
| 59 | 9 | 2 | 18 | 4 | | 4 | | 2 | 17 | 4 | 6 | 2 | 11 | 4 | 6 | 4 | 6 | 2 | 7 | | 6 | 3 | 9 2 |
| 60 | 23 | 4 | 28 | 2 | 41 | 4 | | 2 | 24 | 4 | 6 | 1 | 21 | 2 | 15 | 3 | 6 | 2 | 34 | | 7 | 4 | 14 4 |
| 61 | 6 | 4 | 22 | 3 | | 4 | | 2 | 22 | 4 | 10 | 3 | 6 | 4 | 6 | 3 | 8 | 1 | 7 | | 15 | 4 | 14 2 |
| 62 | 24 | 2 | 33 | 2 | | 4 | | 2 | 27 | 4 | 8 | 4 | 24 | 3 | 15 | 4 | 8 | 3 | 15 | | 6 | 4 | 32 2 |
| 63 | 15 | 4 | 8 | 2 | 11 | 2 | | 2 | 8 | 3 | 6 | 3 | 15 | 4 | 6 | 3 | 6 | 4 | 7 | | 11 | 4 | 15 3 |
| 64 | 6 | 3 | 11 | 2 | | | | 3 | 11 | 3 | 7 | 3 | 6 | 4 | 6 | 2 | 7 | 3 | 7 | | 19 | 3 | 18 2 |
| 65 | 20 | 4 | 24 | 2 | | | | 4 | 25 | 2 | 6 | 3 | 19 | 4 | 16 | 3 | 6 | 3 | 11 | | 12 | 4 | 21 2 |
| 66 | 16 | 4 | 28 | 2 | | | | 2 | 26 | 2 | 6 | 3 | 17 | 3 | 17 | 3 | 6 | 3 | 7 | | 6 | 4 | 16 2 |
| 67 | 18 | 4 | 29 | 2 | | | | 2 | 30 | 2 | 6 | 4 | 16 | 4 | 6 | 3 | 7 | 3 | 6 | | 8 | 4 | 11 2 |
| 68 | 6 | 3 | 24 | 2 | | | | 2 | 26 | 2 | 7 | 1 | 6 | 2 | 6 | 3 | 14 | 4 | 6 | | 15 | 4 | 14 3 |
| 69 | 8 | 4 | 25 | 2 | | | | 3 | 20 | 2 | 15 | | 9 | 3 | 11 | 4 | / | 4 | 25 | | 7 | 4 | 20 3 |
| 70 | 13 | 2 | 32 | 2 | | | | 2 | 28 | 2 | 7 | | 13 | 3 | 15 | 4 | 7 | 1 | 9 | | 7 | 4 | 17 3 |
| 71 | 14 | 3 | 44 | 2 | | | | 2 | 41 | 2 | 7 | | 14 | 3 | 20 | 4 | 9 | | 6 | | 6 | 3 | 11 2 |
| 72 | 24 | 3 | 6 | 2 | | | | 3 | 6 | 2 | 9 | | 24 | 4 | 31 | 3 | 11 | | 26 | | 7 | 3 | 9 3 |
| 73 | 28 | 3 | 20 | 2 | | | | 2 | 21 | 3 | 10 | | 28 | 3 | 26 | 4 | 6 | | 18 | | 7 | 4 | 7 4 |
| 74 | 31 | 4 | 14 | 3 | | | | 2 | 15 | 2 | 6 | | 30 | 2 | 7 | 3 | 7 | | / | | 6 | 2 | 15 4 |
| 75 | 8 | 3 | 14 | 3 | | | | 2 | 14 | 2 | 7 | | 8 | | 21 | 4 | 10 | | 9 | | 26 | 2 | 11 3 |
| 76 | 21 | 2 | 1 | 3 | | | | 3 | 6 | 2 | 10 | | 21 | | 12 | 3 | 10 | | - / | | 19 | | 13 3 |
| 77 | 16 | | 15 | 2 | 65 | | | 2 | 18 | 3 | 10 | | 16 | | 14 | 3 | 6 | | 9 | | 17 | | 11 2 |

| 78 | 20 | 14 | 2 | 20 | | 2 | 13 | 3 | 6 | 20 | 26 | 4 | 22 | 20 | I | 9 | 15 | 2 |
|-----|----|----|---|----|--|---|----|---|----|----|----|---|----|----|---|----|----|-------------|
| 79 | 29 | 17 | 2 | 73 | | 2 | 18 | 2 | 21 | 28 | 6 | 4 | 14 | 8 | | 12 | 21 | 2 |
| 80 | 6 | 18 | 2 | 56 | | 2 | 22 | 2 | 15 | 6 | 6 | 2 | 24 | 23 | | 9 | 10 | 2 |
| 81 | 8 | 19 | 2 | 7 | | 1 | 22 | 2 | 24 | 8 | 8 | | 9 | 35 | | 14 | 13 | 3 |
| 82 | 6 | 24 | 2 | 6 | | 4 | 30 | 2 | 9 | 6 | 6 | | 8 | 6 | | 15 | 18 | 3 2 2 |
| 83 | 6 | 13 | 2 | 11 | | 2 | 14 | 2 | 8 | 6 | 6 | | 6 | 8 | | 29 | 15 | 2 |
| 84 | 25 | 15 | 2 | 9 | | 2 | 16 | 2 | 6 | 25 | 28 | | 8 | 8 | | 14 | 12 | 3 |
| 85 | 22 | 20 | 2 | 6 | | 2 | 21 | 2 | 8 | 22 | 26 | | 16 | 8 | | 30 | 14 | |
| 86 | 21 | 20 | | 6 | | 4 | 23 | 2 | 16 | 21 | 20 | | 6 | 28 | | 13 | 23 | |
| 87 | 8 | 17 | | 6 | | 3 | 17 | 2 | 6 | 8 | 11 | | 10 | 34 | | 21 | 13 | |
| 88 | 24 | 19 | | 6 | | 3 | 21 | 2 | 10 | 24 | 20 | | 6 | 9 | | 11 | 17 | |
| 89 | 7 | 23 | | 6 | | 4 | 24 | | 6 | 7 | 11 | | 6 | 7 | | 12 | 10 | |
| 90 | 18 | 16 | | 25 | | 4 | 16 | | 6 | 18 | 19 | | 13 | 6 | | 7 | 19 | |
| 91 | 23 | 17 | | 25 | | 3 | 21 | | 12 | 23 | 21 | | 9 | 6 | | 18 | 8 | |
| 92 | 28 | 17 | | 24 | | 2 | 19 | | 8 | 28 | 28 | | 10 | 7 | | 15 | 9 | |
| 93 | 32 | 22 | | 7 | | 3 | 25 | | 7 | 32 | 34 | | 8 | 15 | | 12 | 12 | |
| 94 | 30 | 13 | | 12 | | 4 | 14 | | 7 | 30 | 30 | | 9 | 16 | | 12 | 14 | |
| 95 | 22 | 14 | | 7 | | 4 | 16 | | 9 | 22 | 24 | | 8 | 15 | | 30 | | |
| 96 | 23 | 23 | | 18 | | 4 | 25 | | 7 | 23 | 25 | | 6 | 8 | | 13 | | |
| 97 | 29 | 21 | | 15 | | 4 | 22 | | 6 | 29 | 29 | | 8 | 14 | | 15 | | |
| 98 | 34 | | | 27 | | 4 | | | 8 | 34 | 32 | | 21 | 8 | | 14 | | |
| 99 | 27 | | | 15 | | 4 | | | 10 | 27 | 22 | | 16 | 10 | | 22 | | |
| 100 | 27 | | | 21 | | 4 | | | 21 | 27 | 27 | | 15 | 13 | | 18 | | |
| 101 | 28 | | | 18 | | 1 | | | 18 | 28 | 25 | | 8 | 13 | | | | |
| 102 | 21 | | | 25 | | 3 | | | 18 | 21 | 20 | | 17 | 16 | | | | |
| 103 | 14 | | | 24 | | 2 | | | 9 | 14 | 13 | | 8 | 20 | | | | |
| 104 | 26 | | | 14 | | 1 | | | 20 | 26 | 25 | | 16 | 13 | | | | |
| 105 | 39 | | | 24 | | 3 | | | 7 | 39 | 31 | | 16 | 15 | | | | |
| 106 | 24 | | | 14 | | 2 | | | 17 | 24 | 27 | | 23 | 13 | | | | |
| 107 | 30 | | | 25 | | 3 | | | 17 | 31 | 29 | | 22 | 22 | | | | |
| 108 | 29 | | | 19 | | 2 | | | 22 | 29 | 29 | | 8 | 15 | | | | |
| 109 | 21 | | | 17 | | 3 | | | 23 | 21 | 19 | | 17 | 18 | | | | |
| 110 | | | | 30 | | 4 | | | 8 | | | | 27 | 14 | | | | |
| 111 | | | | 21 | | 4 | | | 17 | | | | 23 | 20 | | | | |
| 112 | | | | 18 | | 3 | | | 27 | | | | 20 | 16 | | | | |
| 113 | | | | 16 | | 2 | | | 24 | | | | 15 | 23 | | | | |
| 114 | | | | 25 | | 2 | | | 20 | | | | 25 | 17 | | | | |
| 115 | | | | 23 | | 2 | | | 14 | | | | 19 | 18 | | | | |
| 116 | | | | | | 2 | | | 24 | | | | 9 | 22 | | | | |
| 117 | | | | | | 4 | | | 19 | | | | 12 | 7 | | | | |

| 118 | | | | 4 | | 10 | | | | 14 | 14 | | | |
|-----|--|--|--|---|--|----|---|--|--|----|----|--|--|--|
| 119 | | | | 2 | | 13 | | | | 27 | | | | |
| 120 | | | | 4 | | 14 | | | | 20 | | | | |
| 121 | | | | 3 | | 28 | | | | 14 | | | | |
| 122 | | | | 3 | | 22 | | | | 11 | | | | |
| 123 | | | | 2 | | 14 | | | | 21 | | | | |
| 124 | | | | 2 | | 11 | | | | | | | | |
| 125 | | | | 4 | | 21 | · | | | | | | | |
| 126 | | | | 4 | | | · | | | | | | | |

The values of k when they exceed r (5-bug, 10 EFFs)

| | EFF10-8 | 33 (161) | EFF7-3 | 4 (172) | EFF11-8 | 82 (180) | | | | | | 42 (171) | | 8 (168) | EFF11- | 8 (148) | EFF3-14 | 49 (178) | EFF4-3 | 88 (193) |
|----|---------|----------|--------|---------|---------|----------|-------|-------|-------|-------|-------|----------|-------|---------|--------|---------|---------|----------|--------|-------------------|
| | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k < r | k > r | k <r< th=""></r<> |
| 1 | 6 | 4 | 7 | 3 | 11 | 2 | 9 | 3 | 6 | 3 | 6 | 4 | 6 | 4 | 9 | 4 | 7 | 4 | 8 | 3 |
| 2 | 6 | 3 | 6 | 2 | 15 | 2 | 11 | 4 | 6 | 4 | 8 | 4 | 12 | 4 | 9 | 4 | 11 | 3 | 8 | 2 |
| 3 | 8 | 4 | 6 | 3 | 19 | 3 | 14 | 4 | 8 | 4 | 7 | 4 | 6 | 4 | 7 | 3 | 7 | 3 | 6 | 3 |
| 4 | 6 | 3 | 8 | 3 | 9 | 2 | 14 | 4 | 9 | 3 | 7 | 4 | 7 | 3 | 6 | 4 | 13 | 4 | 6 | 3 |
| 5 | 7 | 3 | 15 | 3 | 8 | 3 | 12 | 4 | 7 | 4 | 10 | 4 | 7 | 3 | 6 | 4 | 7 | 3 | 8 | 3 |
| 6 | 6 | 2 | 19 | 3 | 6 | 3 | 7 | 3 | 7 | 4 | 6 | 4 | 6 | 3 | 6 | 3 | 9 | 4 | 7 | 3 |
| 7 | 6 | 2 | 9 | 2 | 7 | 3 | 6 | 3 | 7 | 3 | 7 | 2 | 6 | 3 | 6 | 2 | 9 | 3 | 9 | 3 |
| 8 | 6 | 3 | 6 | 4 | 8 | 3 | 6 | 3 | 7 | 4 | 6 | 4 | 7 | 4 | 9 | 4 | 6 | 4 | 6 | 3 |
| 9 | 6 | 4 | 11 | 3 | 7 | 3 | 11 | 3 | 6 | 2 | 7 | 2 | 13 | 3 | 7 | 4 | 6 | 4 | 8 | |
| 10 | 6 | 4 | 6 | 4 | 11 | 2 | 15 | 2 | 7 | 3 | 9 | 4 | 7 | 3 | 9 | 2 | 8 | 3 | 6 | |
| 11 | | 4 | 8 | 4 | 12 | 2 | 9 | 2 | 10 | 4 | 6 | 2 | 7 | 2 | 9 | 4 | 8 | 4 | 9 | |
| 12 | | 3 | 6 | 4 | 12 | 4 | 14 | 4 | 7 | 4 | 17 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 16 | |
| 13 | | 4 | 7 | 2 | 9 | 3 | 7 | 2 | 9 | 3 | 8 | 3 | 14 | 3 | 6 | 2 | 16 | 4 | 8 | 3 |
| 14 | | 2 | 12 | 3 | 8 | 3 | 13 | 2 | 11 | 3 | 6 | 4 | 8 | 3 | 7 | 3 | | 4 | 18 | 4 |
| 15 | | 4 | 11 | 4 | 13 | 3 | 12 | 4 | 6 | 2 | 7 | 4 | 11 | 3 | 6 | 3 | | 4 | 10 | 3 |
| 16 | | 3 | 11 | 4 | 7 | 1 | 7 | 3 | 6 | 3 | 6 | 4 | 6 | 4 | 9 | 2 | | 4 | 17 | 4 |
| 17 | | 4 | 6 | 2 | 14 | 3 | 12 | 3 | 15 | 3 | 7 | 4 | 7 | 2 | 6 | 3 | | 3 | 9 | 2 |
| 18 | | 4 | 8 | 3 | 9 | 3 | 6 | 4 | 8 | 3 | 9 | 4 | 12 | 3 | 10 | 3 | | 4 | 13 | 4 |
| 19 | | 3 | 10 | 4 | 6 | 4 | 9 | 3 | 6 | 4 | 9 | 3 | 8 | 4 | 6 | 3 | | 3 | 7 | 4 |
| 20 | | 3 | 6 | 3 | 8 | 3 | 14 | 2 | 6 | 4 | 8 | 3 | 13 | 2 | 10 | 3 | 6 | 2 | 6 | |
| 21 | | 4 | 6 | 4 | 6 | 4 | 6 | 4 | 10 | 3 | 7 | 3 | 7 | 3 | 14 | 4 | | 3 | 8 | 3 |
| 22 | | 4 | 7 | 3 | 8 | 2 | 10 | 4 | 7 | 4 | 6 | 3 | 18 | 2 | 9 | 3 | 6 | 3 | 11 | 4 |
| 23 | | 3 | 7 | 4 | 6 | 4 | 6 | 3 | 8 | 4 | 8 | 3 | 11 | 4 | 7 | 4 | | 3 | | 2 |
| 24 | | 3 | 7 | 3 | 7 | 3 | 10 | 4 | 6 | 4 | 8 | 3 | 8 | 2 | 21 | 2 | | 3 | | 3 |
| 25 | | 3 | 6 | 3 | 15 | 4 | 6 | 4 | 10 | 3 | 11 | 1 | 8 | 3 | 10 | 3 | | 2 | 9 | 4 |
| 26 | | 3 | 14 | 2 | 7 | 2 | 7 | 4 | 6 | 2 | 6 | 2 | 7 | 4 | 10 | 3 | | 2 | 9 | |
| 27 | | 3 | 7 | 4 | 10 | 2 | 14 | 3 | 10 | 4 | 8 | 3 | 6 | 2 | 13 | 3 | | 3 | 6 | |
| 28 | | 2 | 10 | 4 | 24 | 3 | 6 | 2 | 6 | 4 | 9 | 3 | 6 | 4 | 6 | 2 | | 2 | 6 | |
| 29 | | 4 | 10 | 4 | 20 | 2 | 10 | 4 | 6 | 3 | 12 | 3 | 7 | 3 | 16 | 3 | | 2 | 6 | - |
| 30 | | 2 | 12 | 3 | 14 | 3 | 8 | 3 | 7 | 4 | 9 | 4 | 8 | 3 | 8 | 3 | | 3 | 18 | 2 |
| 31 | | 4 | 8 | 2 | 8 | 3 | 14 | 3 | 7 | 4 | 9 | 4 | 6 | 3 | 12 | 2 | | 3 | 12 | 3 |
| 32 | | 4 | 7 | 2 | 10 | 3 | 9 | 4 | 7 | 4 | 11 | 4 | 10 | 2 | 7 | 2 | | 4 | 16 | 3 |
| 33 | | 4 | 13 | 2 | 17 | 2 | 11 | 2 | 7 | 3 | 7 | 3 | 13 | 2 | 10 | 3 | | 2 | 30 | 3 |
| 34 | | 2 | 8 | 2 | 6 | 2 | 11 | 2 | 6 | 3 | 8 | 4 | 8 | 3 | 15 | 2 | | 3 | 6 | |
| 35 | | 4 | 10 | 3 | 18 | 4 | 6 | 3 | 6 | 3 | 9 | 3 | 12 | 4 | 14 | 3 | | 2 | 9 | |
| 36 | | 4 | 11 | 4 | 11 | 2 | 8 | 3 | | 4 | 8 | 2 | 7 | 4 | 7 | 3 | | 3 | 12 | 3 |
| 37 | | 4 | 16 | 2 | 16 | 3 | 9 | 3 | | 4 | 7 | 3 | 7 | 1 | 8 | 4 | | 2 | 19 | 2 |

| 38 | 3 | 6 | 3 | 16 | 3 | 8 | 2 | 3 | 9 | 3 | 6 | 1 | 7 | 4 | 3 | 7 | 4 |
|----|---|----|---|----|---|----|---|-------|----|---|----|---|---|---|---|----|---|
| 39 | 3 | | | 17 | 3 | 7 | 2 | 3 | 6 | 4 | 7 | 4 | 7 | 2 | 2 | 9 | 4 |
| 40 | 4 | | | | 2 | 16 | 3 | 4 | 7 | 4 | 6 | 3 | 7 | 3 | 2 | 6 | |
| 41 | 3 | 8 | 2 | | 2 | 6 | 3 | 4 | 10 | 1 | 8 | 3 | 6 | 3 | 3 | 22 | 3 |
| 42 | 4 | 15 | 2 | | 3 | 7 | 4 | 4 | 6 | 1 | 6 | 2 | Ť | 3 | 2 | 27 | 3 4 2 2 |
| 43 | 3 | | 2 | | 3 | 6 | 2 | 4 | 6 | 1 | 8 | 4 | | 4 | 2 | 12 | 2 |
| 44 | 4 | 8 | 3 | | 2 | 8 | 3 | 3 | 6 | 3 | 7 | 2 | | 4 | 3 | 13 | 2 |
| 45 | 4 | 11 | 4 | | 2 | 7 | 3 | 4 | 7 | 3 | 22 | 1 | | 3 | 2 | 13 | 4 |
| 46 | 4 | 8 | 4 | | 4 | 8 | 3 | 4 | 9 | 2 | 6 | 3 | | 3 | 2 | | 3 |
| 47 | 4 | 12 | 2 | | 3 | 10 | 2 | 4 | 9 | 2 | 9 | 2 | | 2 | 2 | | 2 |
| 48 | 4 | | 2 | | 2 | 6 | 2 | 3 | 8 | 1 | 9 | 2 | | 4 | 3 | | 2 |
| 49 | 3 | | 4 | | 2 | 6 | 3 | 1 | 6 | 4 | 8 | 2 | | 3 | 2 | | 2 |
| 50 | 3 | | 4 | | 2 | 7 | 3 | 1 | 7 | 2 | 9 | 2 | | 1 | 2 | | 3 |
| 51 | 3 | | 4 | | 3 | 6 | 2 | 2 | 6 | 2 | 6 | 2 | | 1 | 2 | | 3 2 2 2 2 3 1 |
| 52 | 4 | | 4 | | 2 | 18 | 2 | 3 | | 3 | 6 | 2 | | 1 | 3 | | 2 |
| 53 | 4 | | 3 | | 3 | 10 | 3 | 3 | | 2 | 7 | 1 | | 2 | 2 | | 2 2 2 4 |
| 54 | 4 | | 3 | | 4 | 16 | 2 | 2 | | 2 | 8 | 3 | | 2 | 3 | | 2 |
| 55 | 4 | | 2 | | 2 | 9 | 2 | 4 | | 2 | 12 | 3 | | 2 | 3 | | 4 |
| 56 | 3 | | 4 | | 2 | 6 | 2 | 2 | | 1 | 7 | 2 | | 3 | 3 | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 57 | 4 | | 1 | | 2 | 7 | 3 | 4 | | 4 | 17 | 1 | | 1 | 3 | | 2 |
| 58 | 3 | | 1 | | 3 | 6 | 2 | 4 | | 4 | 6 | 1 | | 2 | 2 | | 2 |
| 59 | 4 | | 2 | | 4 | 11 | 2 | 1 | | 3 | 9 | 2 | | 3 | 4 | | 2 |
| 60 | 4 | | 3 | | 2 | 12 | 2 | 3 | | 1 | 6 | 3 | | 3 | 1 | | 2 |
| 61 | 2 | | 3 | | 4 | 10 | 2 | 3 | | 1 | 8 | 4 | | 3 | 1 | | 2 |
| 62 | 4 | | 3 | | 2 | 9 | 3 | 2 | | 2 | | 4 | | 3 | 2 | | 2 |
| 63 | 3 | | 4 | | 3 | 10 | 3 | 2 | | 4 | | 4 | | 3 | 2 | | 2 |
| 64 | 4 | | 3 | | 1 | 8 | 2 | 2 | | 4 | | 4 | | 3 | 4 | | 2 |
| 65 | 4 | | 3 | | 2 | 6 | 2 | 2 | | 4 | | 3 | | 1 | 3 | | 2 |
| 66 | 3 | | 2 | | 3 | 14 | 3 | 2 | | 1 | | 4 | | 2 | 3 | | 2 |
| 67 | 4 | | 3 | | 2 | 6 | 3 | 2 | | 1 | | 2 | | 1 | 2 | | 2 |
| 68 | 4 | | 3 | | 2 | 10 | 3 | 1 | | 2 | | 3 | | 1 | 1 | | 2 |
| 69 | 3 | | 3 | | 2 | 20 | 3 | 3 | | 4 | | 4 | | 1 | 2 | | 3 |
| 70 | 4 | | 2 | | 2 | 13 | 3 | 3 | | 3 | | 4 | | 1 | 3 | | 3 |
| 71 | 2 | | 2 | | 3 | 7 | 4 | 2 | | 3 | | 4 | | 3 | 3 | | 2 |
| 72 | 1 | | 3 | | 3 | 14 | 3 | 1 | | 3 | | 4 | | 1 | 2 | | 2 |
| 73 | 1 | | 4 | | 2 | 9 | 2 | 4 | | 2 | | 2 | | 4 | 2 | | 2 |
| 74 | 2 | | 2 | | 3 | 6 | 4 | 1 | | 2 | | 3 | | 4 | 4 | | |
| 75 | 2 | | 3 | | 3 | 6 | 3 | 2 | | 3 | | 4 | | 2 | 2 | | 4 |
| 76 | 2 | | 3 | | 3 | 12 | 4 | 3 | | 3 | | 3 | | 2 | 3 | | 1 |
| 77 | 2 | | 3 | | 2 | 12 | 3 | 4 | | 2 | | 4 | | 4 | 2 | | 1 |

| The color of the | 70 | 4 | 1 | 0 | 1 | | 7 | 0 | 1 4 | 1 | 0 | 1 | 4 | 1 | 4 | | |
|--|-----|-------|---|---|----------------|---|---|---|-----|---|---|-----|---|---|---|---|-----|
| 80 2 3 3 4 4 2 4 4 3 4 4 3 3 4 4 3 3 4 4 2 4 4 3 3 4 4 2 4 4 3 3 3 4 4 3 3 3 4 4 3 3 3 4 4 3 3 3 4 4 3 3 3 4 4 3 3 3 4 4 2 2 2 3 3 4 4 2 1 3 3 1 1 2 | | | | | | | | | | | | | | | | | 2 |
| 81 2 3 4 4 3 3 4 4 2 4 82 2 2 2 1 4 3 2 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 2 3 3 3 3 3 2 2 2 | | - | | | | | / | | | | | | | | | | |
| 82 2 2 2 1 4 3 2 3 4 3 3 3 3 3 3 3 3 3 3 1 1 3 1 2 3 3 3 3 2 2 2 | | | | | | | | | | | | | | | | | |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td>4</td> | | | | | | | | | | | | | | | | | 4 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td>3</td> | | | | | | | | | | | | | | | | | 3 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td>3</td> | | | | | | | | | | | | | | | | | 3 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td>1</td> | | | | | | | | | | | | | | | | | 1 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td>2</td> | | | | | | | | | | | | | | | | | 2 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td>3</td> | | | | | | 2 | | | | | 2 | | | | 3 | | 3 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td>3</td> | | | | | | | | | | | | | | | | | 3 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td>2</td> | | | | | | | | | | | | | | | | | 2 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td>89</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> | 89 | 2 | | | | | | 2 | | | 3 | | | | | | 2 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> | | | | | | | | 2 | | | | | | | | | 2 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td>91</td> <td>1</td> <td></td> <td>2</td> <td></td> <td>2</td> <td></td> <td>4</td> <td>3</td> <td></td> <td>1</td> <td></td> <td>3</td> <td></td> <td>3</td> <td>3</td> <td>2</td> | 91 | 1 | | 2 | | 2 | | 4 | 3 | | 1 | | 3 | | 3 | 3 | 2 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td>92</td> <td>2</td> <td></td> <td>2</td> <td></td> <td>3</td> <td></td> <td>3</td> <td>4</td> <td></td> <td>4</td> <td></td> <td>2</td> <td></td> <td>3</td> <td>2</td> <td>3</td> | 92 | 2 | | 2 | | 3 | | 3 | 4 | | 4 | | 2 | | 3 | 2 | 3 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td>93</td> <td>2</td> <td></td> <td>2</td> <td></td> <td>2</td> <td></td> <td>3</td> <td>4</td> <td></td> <td>1</td> <td></td> <td>3</td> <td></td> <td>2</td> <td>3</td> <td>3</td> | 93 | 2 | | 2 | | 2 | | 3 | 4 | | 1 | | 3 | | 2 | 3 | 3 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td>94</td> <td>4</td> <td></td> <td>3</td> <td></td> <td>4</td> <td></td> <td>4</td> <td>2</td> <td></td> <td>1</td> <td></td> <td>3</td> <td></td> <td>3</td> <td>3</td> <td>3</td> | 94 | 4 | | 3 | | 4 | | 4 | 2 | | 1 | | 3 | | 3 | 3 | 3 |
| 96 1 2 3 2 2 1 3 3 1 4 97 1 3 2 4 1 2 4 4 3 2 98 4 3 1 1 1 1 2 2 4 2 2 99 2 2 1 3 4 2 3 3 3 2 3 100 2 3 2 4 2 2 4 3 2 3 3 2 3 3 2 3 3 2 3 </td <td>95</td> <td>2</td> <td></td> <td>3</td> <td></td> <td>3</td> <td></td> <td>4</td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> | 95 | 2 | | 3 | | 3 | | 4 | | | 3 | | | | | | 2 |
| 97 1 3 2 4 1 2 4 4 3 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 | 96 | 1 | | 2 | | | | 2 | | | | | | | 3 | | |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | 97 | 1 | | 3 | | 2 | | 4 | 1 | | 2 | | 4 | | 4 | 3 | 2 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | 98 | 4 | | | | | | 1 | 1 | | | | 2 | | 4 | | 2 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | 99 | 2 | | 2 | | 1 | | 3 | 4 | | 2 | | | | 3 | | 2 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | 2 | | 3 | | 2 | | | 2 | | | | | | | | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | | | | | | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | 102 | | | 3 | | | | | | | | | | | 3 | | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | 3 | | 3 | | | | | | | | | 3 | | | | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | | | | | | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | | | | | 4 | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | | | | | | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | | | | | | 3 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | j | | | | | 2 |
| 110 3 4 3 3 4 1 111 2 4 2 4 2 4 2 112 3 3 2 3 3 2 3 3 1 113 2 3 3 2 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | j | | | | | 2 |
| 111 2 4 2 4 2 4 2 112 3 3 2 3 3 1 113 2 3 3 2 3 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | | | | | | 1 |
| 112 3 3 2 3 3 3 1 113 2 3 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 2 4 1 | | | | | | | | | | | | İ | | | | | 2 |
| 113 2 3 3 2 3 2 114 2 4 3 4 2 4 3 115 2 3 3 3 2 4 1 | | | | | | | | | | | | İ | | | | | 1 |
| 115 2 3 3 3 2 | | | | | | | | | | | | | | | | | 2 |
| 115 2 3 3 3 2 | | | | | | | | | | | | Ì | | | | | . 3 |
| 116 3 3 3 2 3 2 117 2 4 3 2 2 2 2 | | | | | - | | | | | | | T I | | | | | 1 |
| 117 2 4 3 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 | | | | | | | | | | | | | | | | | 2 |
| | 117 | 2 | | 4 | | 3 | | | 2 | | 2 | ľ | | | | 3 | 2 |

| 118 | 3 | 3 | 4 | | 1 | 1 | | | 4 | 3 |
|-----|---|---|---|--|---|---|--|--|---|---|
| 119 | 2 | 2 | 3 | | 4 | 4 | | | 3 | 2 |
| 120 | 3 | 4 | 4 | | 3 | 3 | | | 4 | 3 |
| 121 | 1 | 4 | 2 | | | | | | 4 | 3 |
| 122 | 2 | 3 | 4 | | | | | | 4 | 3 |
| 123 | 3 | 3 | 4 | | | | | | 3 | 2 |
| 124 | 1 | 4 | 2 | | | | | | 2 | 2 |
| 125 | 1 | 3 | 4 | | | | | | 4 | 3 |
| 126 | 3 | | 3 | | | | | | 3 | 3 |
| 127 | 2 | | 3 | | | | | | 3 | 3 3 3 3 2 2 2 3 3 3 3 3 3 3 3 |
| 128 | 2 | | 4 | | | | | | 4 | 3 |
| 129 | 2 | | 2 | | | | | | 2 | 3 |
| 130 | 2 | | 3 | | | | | | 3 | 3 |
| 131 | 3 | | 2 | | | | | | 2 | 3 |
| 132 | 2 | | 4 | | | | | | 4 | 3 |
| 133 | 2 | | 4 | | | | | | 4 | 4 |
| 134 | 2 | | 2 | | | | | | 4 | 4 |
| 135 | 3 | | 2 | | | | | | 3 | 3 |
| 136 | 2 | | 2 | | | | | | 2 | 2 |
| 137 | 4 | | 3 | | | | | | 2 | 3 |
| 138 | 2 | | 3 | | | | | | 3 | 3 |
| 139 | 3 | | 4 | | | | | | 4 | 3 |
| 140 | 1 | | 2 | | | | | | 2 | 2 |
| 141 | 3 | | 4 | | | | | | 3 | 3 |
| 142 | 2 | | | | | | | | 4 | 4 3 3 3 3 3 2 3 4 2 2 2 3 3 3 1 1 |
| 143 | 3 | | | | | | | | 4 | 2 |
| 144 | 2 | | | | | | | | 4 | 2 |
| 145 | 2 | | | | | | | | 3 | 3 |
| 146 | 2 | | | | | | | | 4 | 3 |
| 147 | 2 | | | | | | | | 2 | 3 |
| 148 | 2 | | | | | | | | 3 | 1 |
| 149 | 1 | | | | | | | | 3 | |
| 150 | 4 | | | | | | | | 2 | |
| 151 | 3 | | | | | | | | 2 | |