What is the maximum count value produced for any specification and any
pile size of 20 or less? What pile size(s), row length(s) and specification(s)
produce it?
Given a pile size, row length, and specification can you think of
a way of computing its count that doesn't rely on actually carrying out that
many transformations?

Pile Size: 1
Row Length: 1   MAX VALUE

TL:	1	1
BL:	1	1
TR:	1	1
BR:	1	1

Pile Size: 2
Row Length: 1   2   MAX VALUE

TL:	1	1	1
BL:	2	1	2
TR:	1	2	2
BR:	2	2	2

Pile Size: 3
Row Length: 1   3   MAX VALUE

TL:	1	1	1
BL:	2	1	2
TR:	1	2	2
BR:	2	2	2

Pile Size: 4
Row Length: 1   2   4   MAX VALUE

TL:	1	2	1	2
BL:	2	4	1	4
TR:	1	4	2	4
BR:	2	2	2	2

Pile Size: 5
Row Length: 1   5   MAX VALUE

TL:	1	1	1
BL:	2	1	2
TR:	1	2	2
BR:	2	2	2

Pile Size: 6
Row Length: 1   2   3   6   MAX VALUE

TL:	1	4	4	1	4
BL:	2	6	3	1	6
TR:	1	3	6	2	6
BR:	2	4	4	2	4

Pile Size: 7
Row Length: 1   7   MAX VALUE

TL:	1	1	1

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BL:         2    1    2
TR:         1    2    2
BR:         2    2    2


Pile Size: 8
Row Length:      1    2    4    8    MAX VALUE

TL:         1    3    3    1    3
BL:         2    3    6    1    6
TR:         1    6    3    2    6
BR:         2    6    6    2    3

Pile Size: 9
Row Length:      1    3    9    MAX VALUE

TL:         1    2    1    2
BL:         2    4    1    4
TR:         1    4    2    4
BR:         2    2    2    2

Pile Size: 10
Row Length:      1    2    5    10   MAX VALUE

TL:         1    6    6    1    6
BL:         2    5    10   1    10
TR:         1    10   5    2    10
BR:         2    6    6    2    6

Pile Size: 11
Row Length:      1    11   MAX VALUE

TL:         1    1    1
BL:         2    1    2
TR:         1    2    2
BR:         2    2    2

Pile Size: 12
Row Length:      1    2    3    4    6    12   MAX VALUE

TL:         1    10   5    5    10   1    10
BL:         2    12   6    3    12   1    12
TR:         1    12   3    6    12   2    12
BR:         2    10   10   10   10   2    10

Pile Size: 13
Row Length:      1    13   MAX VALUE

TL:         1    1    1
BL:         2    1    2
TR:         1    2    2
BR:         2    2    2

Pile Size: 14
Row Length: 1    2    7    14   MAX VALUE
TL:         1    12   12   1    12
BL:         2    4    4    1    4
TR:         1    4    4    2    4
BR:         2    12   12   2    12
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Pile Size: 15
Row Length:        1     3     5     15     MAX VALUE

TL:          1     6     6     1      6
BL:          2     4     4     1      4
TR:          1     4     4     2      4
BR:          2     6     6     2      6

Pile Size: 16
Row Length:        1     2     4     8      16     MAX VALUE

TL:          1     4     2     4      1      4
BL:          2     8     4     8      1      8
TR:          1     8     4     8      2      8
BR:          2     4     2     4      2      4

Pile Size: 17
Row Length:        1     17    MAX VALUE

TL:          1     1     1
BL:          2     1     2
TR:          1     2     2
BR:          2     2     2

Pile Size: 18
Row Length:        1     2     3     6      9      18     MAX VALUE

TL:          1     8     16    16     8      1      16
BL:          2     9     9     18     18     1      18
TR:          1     18    18    9      9      2      18
BR:          2     8     16    16     8      2      16

Pile Size: 19
Row Length:        1     19    MAX VALUE

TL:          1     1     1
BL:          2     1     2
TR:          1     2     2
BR:          2     2     2

Pile Size: 20
Row Length:        1     2     4     5      10     20     MAX VALUE

TL:          1     18    9     9      18     1      18
BL:          2     6     6     3      6      1      6
TR:          1     6     3     6      6      2      6
BR:          2     18    18    18     18     2      18
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