

Pensieve header: Multiplication term count.

```
s[0, _] = 1;
```

```
s[_ , 0] = 1;
```

```
s[m_ , n_] := s[m, n] =  $\sum_{j=0}^m \text{Binomial}[\mathbf{m}+1, \mathbf{j}+1] \mathbf{s}[\mathbf{m}-\mathbf{j}, \mathbf{n}-1];$ 
```

```
Table[s[m, n], {m, 0, 8}, {n, 0, 8}] // MatrixForm
```

1	1	1	1	1	1	1	1	1
1	3	7	15	31	63	127	255	511
1	7	31	115	391	1267	3991	12355	37831
1	15	115	675	3451	16275	72955	316275	1340251
1	31	391	3451	25231	164731	999391	5767051	32122831
1	63	1267	16275	164731	1441923	11467387	85314915	604907611
1	127	3991	72955	999391	11467387	116914351	1096832395	9682617631
1	255	12355	316275	5767051	85314915	1096832395	12764590275	13802741745
1	511	37831	1340251	32122831	604907611	9682617631	138027417451	1805409270031

```
Table[s[n, n], {n, 0, 12}]
```

```
{1, 3, 31, 675, 25231, 1441923, 116914351, 12764590275,
 1805409270031, 321113303226243, 70146437009397871,
 18462286083671614275, 5762225835975165678031}
```

Seen at <http://oeis.org/A092552>

```
s[12, 12] / 24! // N
```

```
0.0092872
```