Problem Statement of Pascal's Triangle

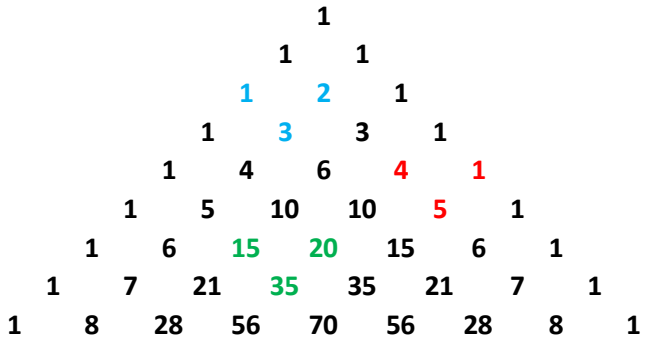

Figure 1: Pascal's Triangle to the 6th coefficient

Figure 1 is what I'm trying to generate with MATLAB and/or VBA. I created the problem myself since I found Pascal's Triangle interesting. Pascal's Triangle is used to find the coefficients of any binomial expression, such as $(x + y)^n$.
So, if you have the exponent $n = 1$, then the expression is $(x + y)^1$, and you get an expansion of $x + y$ $(also\ written\ as\ 1x + 1y)$, which has the coefficients 1 & 1 $(or\ 1\ 1)$.

$n = 0$: $(x + y)^0 = 1$
$coefficient = 1$

$n = 1$: $(x + y)^1 = x + y$
$coefficients = 1\ 1$

$n = 2$: $(x + y)^2 = x^2 + 2xy + y^2$
$coefficients = 1\ 2\ 1$

$n = 3$: $(x + y)^3 = x^3 + 3x^2y + 3xy^2 + y^3$
$coefficients = 1\ 3\ 3\ 1$

∴ the triangle becomes:

1
1 1
1 2 1
1 3 3 1

I want the user to input any integer, n, to calculate the coefficients of the expressions. Maybe later when I solved this stage of the problem, I will just find the whole expansion of the nth expression.