## Cody Problem 37. Pascal's Triangle

Given an integer  $n \ge 0$ , generate the length n+1 row vector representing the n-th row of Pascal's Triangle.

Examples:

```
% pascalTri(0)
% ans =
%     1
%
% pascalTri(1)
% ans =
%     1     1
%
% pascalTri(2)
% ans =
%     1     2     1
```

## **Scratch Pad**

## Solution

```
function y = pascalTri(n)
    n = n + 1;
    if n == 1
        y = 1;
    elseif n == 2;
        y = [1 1];
    else
        y = [1,1];
        for i=2:n-1
            y = conv([1 1],y);
        end
    end
end
```