Cody Problem 34. Binary numbers

Given a positive, scalar integer n, create a (2^n) -by-n double-precision matrix containing the binary numbers from 0 through 2^n-1 . Each row of the matrix represents one binary number. For example, if n=3, then your code could return

```
>> binary_numbers(3)
```

ans =

%	1	1	1
%	0	0	0
%	0	1	1
%	0	1	0
%	0	0	1
%	1	0	0
%	1	1	0
%	1	0	1

Scratch Pad

```
n = 2;
A = binary_numbers(n)
```

```
A = 4×2

0 0

0 1

1 0

1 1
```

```
n = 3;
A = binary_numbers(n)
```

```
A = 8 \times 3
             0
                    0
     0
             0
                    1
     0
            1
                    0
     0
            1
                   1
     1
             0
                    0
     1
             0
                    1
     1
             1
                    0
      1
             1
                    1
```

```
n = 5;
A = binary_numbers(n)
```

```
A = 32×5
0 0 0 0 0
```

```
0
      0
            0
                   0
                         1
0
      0
            0
                   1
                         0
0
      0
            0
                   1
                         1
0
      0
            1
                   0
                         0
0
      0
            1
                   0
                         1
0
            1
                         0
      0
                   1
0
      0
            1
                   1
                         1
0
      1
                          0
0
```

Solution