

## Cody Problem 33. Create times-tables

At one time or another, we all had to memorize boring times tables. 5 times 5 is 25. 5 times 6 is 30. 12 times 12 is way more than you think.

With MATLAB, times tables should be easy! Write a function that outputs times tables up to the size requested.

Example:

```
% Input n = 5
% Output m is [ 1     2     3     4     5
%               2     4     6     8    10
%               3     6     9    12    15
%               4     8    12    16    20
%               5    10    15    20    25 ]
```

### Scratch Pad

```
n = 5;

m = timestables(n)
```

```
m = 5x5
     1     2     3     4     5
     2     4     6     8    10
     3     6     9    12    15
     4     8    12    16    20
     5    10    15    20    25
```

### Solution

```
function m = timestables(n)
    vec = 1:n;
    m = vec.*vec';
end
```