Problem 4. Make a checkerboard matrix

Given an integer n, make an n-by-n matrix made up of alternating ones and zeros as shown below. The a(1,1) should be 1.

Example:

```
n = 5;
```

```
n = 5
```

```
result = 5x5
                1
                      0
                            1
    1
    0
          1
                0
                      1
                            0
    1
          0
                1
                      0
                            1
                            0
    0
          1
                0
                      1
                1
                            1
```

```
assert(isequal(result,a))
```

```
function a = checkerboard(n)
  a = zeros(n);
  a(1:2:end,1:2:end) = 1;
  a(2:2:end,2:2:end) = 1;
end
```