Name: Solutions

What does the vector z look like after each of the following commands? Pay especially close attention to the shape of z. If the command would produce an error, explain why that error would occur and leave z unchanged. Note that z is not reinitialized between commands.

1. `z = 2:2:10`

$z = [2\ 4\ 6\ 8\ 10]$

2. `z(0) = 1`

Error, zero is an invalid index since Matlab is one-indexed.

3. `z(2) = []`

$z = [2\ 6\ 8\ 10]$

4. `z = z'`

$$z = \begin{bmatrix} 2 \\ 6 \\ 8 \\ 10 \end{bmatrix}$$

5. `z = z^2`

Error, only square matrices can be squared. Use .^ to square each entry.