Exercise: 0 Internalize the differences between the point-wise and regular versions of the operators by examining the results of the following expressions that use the variables $A=[1\ 2;\ 3\ 4]$, $B=[1\ 0;\ 0\ 2]$, and C=[3;4]. Note: some commands may result in an error message. Understand what the error is and why it was given.

- A*B vs. A.*B vs. B.*A vs. B*A
- 2*A vs. 2.*A
- A^2 vs. A*A vs. A.*A vs. A.^2 vs. 2.^A vs. A^A vs. 2^A. The last one here might be difficult to understand...it is matrix exponentiation.
- A/B vs. A\B vs. A./B vs. A.\B
- \bullet A*C vs. A*C' vs. C*A vs. C'*A
- A\C vs. A\C' vs. C/A vs. C'/A

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