Work on these problems for 90m/until you solve everything/longer if you're interested!

- 1. Consider the following "miniature" model for the internet, made of six webpages¹:
 - Pets.com: links to boo, Webvan, and Kozmo.
 - boo.com: links to Webvan, Kozmo and eToys.
 - Webvan.com: links to Kozmo, eToys, and DigiScents.
- Kozmo.com: links to eToys, DigiScents, and Pets.com.
- eToys.com: links to DigiScents, Pets, and boo.
- DigiScents.com: links to Pets, boo, and Webvan.
- (a) Draw a diagram with six bubbles, one for each webpage, and arrows between these bubbles representing the links above.
- (b) Turn this model of the internet into a 6×6 "link-matrix" A, as done in the notes.
- (c) Use this link matrix to find the "importance vector" (i.e. eigenvector corresponding to the eigenvalue 1) for this matrix A, showing your work and justifying your answer. Interpret your results: what do they say about the relative importance of these six websites?

¹These were all real websites, once upon a time. Even DigiScents. People once thought smelling things over the internet was a good idea.