



Bonus Activity: Let's Go Further

1. Come up with your own question. Make sure it requires an application of some the things we learned today. Here are some ideas:

- (i) Counting the number of ways to choose 3 objects from a list of n objects
- (ii) Counting the number of ways to choose 4 objects from a list of n objects
- (iii) A sorting problem that involves at least 6 items. Make sure that your graph is planar. (What if your graph isn't planar?!)
- (iv) We labeled vertices in our examples. We can also label edges! Think of some possible application for a graph with labeling on its vertices and edges.

2. After you have written your own question, give it to a friend and ask them to answer it.