Work with your neighbor. (This will be graded for participation only.)

1. What is a reference? If a variable x is a reference to a list (array), does x actually contain the list?

2. We said that the line of code

   ```
   x = [1,2,3,4,5]
   ```

   is executed in two steps. What are these steps?

   Step 1:

   Step 2:

3. Draw the data structure diagram (that is, the reference diagram) for the following:

   [[1,0, 0], [0,1,0], [0,0,1]]

   Discuss with your group. Make sure everyone can see the diagram and that you agree on the diagram!

4. Draw the diagrams for the following:

```
x, y = "ab", 12
```

```
z = [x,y]
```

5. Slide 24: Write the code that produces the two different diagrams.

6. Slide 27: Write the code that produces the diagram shown.

7. Slide 28: What is the diagram for z?