Those of you who turned in yesterday's assignment in Windows Teams did a great job. If you submit `.txt` or `.java`, I can easily go through and read everyone code without downloading anything. So good! I know I told you a couple weeks ago to submit an entire .zip file into teams, but that didn't work out so good for me, so let's keep going this way.

I have posted Project 35c in file `PCScix35c.pdf`. This has all the graph theory definitions you need, some of the methods already assigned, and some new methods.

Your assignment now is to:

- Download and read `PCScix35c.pdf`.

- Submit P35c Program 2 (associates) to Microsoft Teams Assignment 0413 if you have not already done so.

- Write and submit P35c Programs 3 and 4 (isConnected and numberOfComponents) to Microsoft Teams Assignment 0414 (due tomorrow but try to finish it today).

- Project 35c Program 5 (isTree) will be assigned on tomorrow, Assignment 0415, and due on Friday, April 16.

After you have worked on this, checkin at

<div align="center">0414 AP Computer Science Checkin</div>

Here is pseudocode for isConnected and numberOfComponents.

```
isConnected
    Get first vertex v
    Get all associates A of v
    If the length of A equals the number of vertices in the graph,
        Return true
    Else
        Return false

numberOfComponents
    Clone a list L of vertices
    While L is nonempty
        Get the first vertex v in L
        Get all the associates A of v
        Remove everything in A from L
        Increment a counter
    Return the counter
```

Please feel free to send me a message any time on Microsoft Teams.