

Fetch Project 35d in document PCScix35d_GraphTheory.pdf. Write the `public static Graph component(Graph G, Vertex v)` method and upload the source code to just this method into Microsoft Teams. Try to finish this today but it will be due tomorrow.

Here is some pseudocode for `component`:

```
public static Graph component(Graph G, Vertex v)
    Create a new graph object H
    Put v in H.V using the add methods
    For v in H.V
        Get the adjacents A of v in G
        For w in A
            if (w not in H.V)
                Add w to H.V
                Add edge(v,w) to H.E
    Return H
```

Tomorrow your assignment will be an AP problem. Then on Wednesday, another Graph Theory method. I hope this to be engagin as well as good practice for the AP exam.

You may be interested in this article [About Donald Knuth](#).