

Today, please try your hand at the AP problem in H0421 document `HCSaix0421.pdf`. Upload *just the code* that you can write in less than 1 hour to the appropriate assignment in Microsoft Teams. Please upload as a `.txt` or a `.java`.

Yesterday's assignment was:

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.

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
```