Undirected Weighted Graph

Minimum Spanning Trees

Requirements

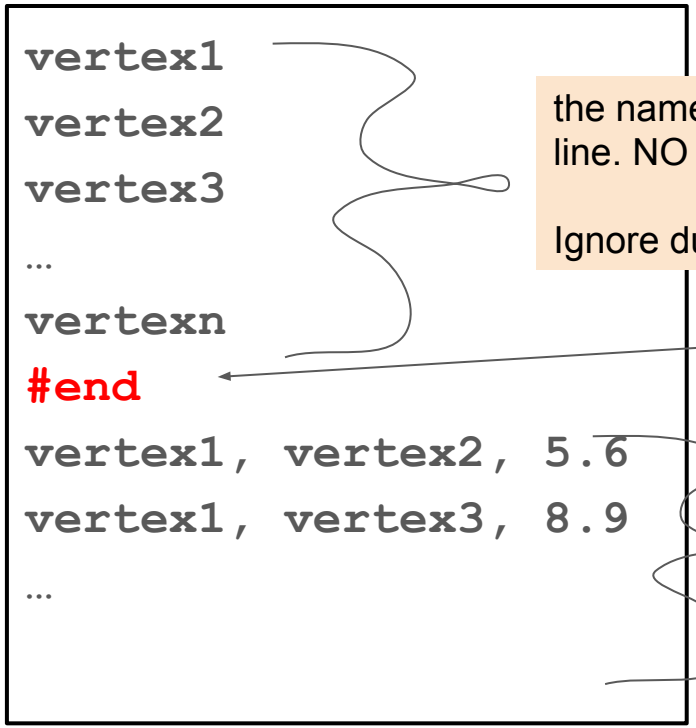
Create file in python with a **comment** containing the academic honesty pledge as shown below. Add another, separate comment to the file containing your name

- Write a python program that creates a graph using a textarea and the formatting described in a later slide
- Your code will print out the MST of the graph described in later slides.
- Your code should generate both the form (with a textbox) and the output.

```
# I honor Parkland's core values by affirming that I have
# followed all academic integrity guidelines for this work.

# your name
```

Input format: This is a **undirected** & weighted graph



the names of the vertices, one per line. NO EMBEDDED SPACES!!!

Ignore duplicates

There are no negative edge weights.

Keyword that shows the end of the vertices

the edges in the graph. Format is:

`vertex [comma] [space] vertex [comma] [space] weight [newline]`

When you're out of data, there are no more edges. Ignore invalid edges. Weights can be decimal numbers. Consider the edges undirected.

Minimum Spanning Tree - Prim-Jarnik

Construct a MST using the Prim-Jarnik method. Print the following:

- The edges in the tree, with their weights.
- The total weight of the entire tree.

Minimum Spanning Tree - Kruskal

Construct a MST using the Kruskal method. Print the following:

- The edges in the tree, with their weights.
- The total weight of the entire tree.

Turn in

The code you wrote or modified.

A link to the webpage.