https://repl.it/@kurbanParkland/graph-base-chapter-14-with-dijjstra

# Directed Weighted Graph

Dijkstra's Shortest Path Algorithm

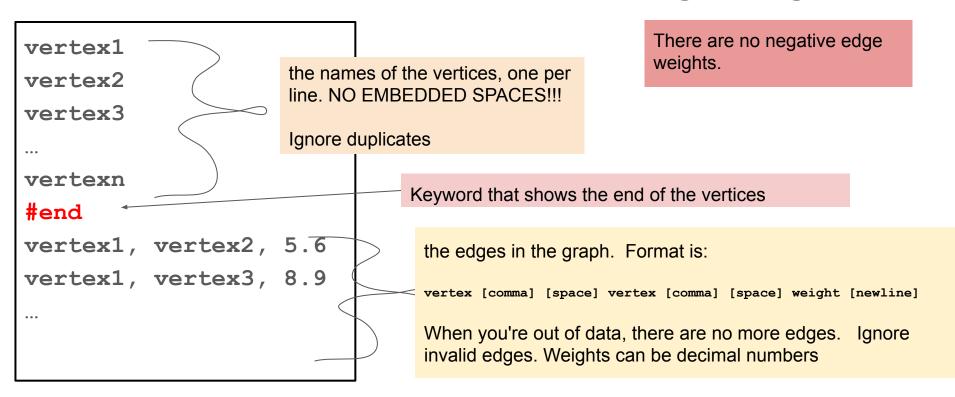
#### Requirements

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 shortest path in 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 directed & weighted graph



### Shortest path

If there are edges labels "START" and "END", perform Dijkstra's algorithm on the graph and print:

- The shortest path from START to END as a series of edges.
- The weights of the edges used. (You'll need to mess with construct path)
- The total weight of the path. (You'll need to mess with construct path OR the distance map)

## Input sample

```
spot1
place2
place106
hallway5
START
vertex8
END
#end
START, place2, 5.6
place2, END, 8.9
```

#### Turn in

The code you wrote or modified.

A link to the webpage.