

Graph 3

BFS

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 properties graph in the multiple ways 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, unweighed graph

```
vertex1  
vertex2  
START  
vertex3  
END
```

...

```
vertexn
```

```
#end
```

```
vertex1, vertex2
```

```
vertex1, START
```

...

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

Ignore duplicates

Keyword that shows the end of the vertices

the edges in the graph. Format is:

vertex [comma] [space] vertex [newline]

When you're out of data, there are no more edges.
Ignore invalid edges

Shortest Path

If the graph contained vertices labeled 'START' and 'END', report the shortest path from 'START' to 'END'. There are no quotes in the labels. If either vertex isn't there, ignore this.

This is an unweighted, directed graph, so use BFS.

Output the path edges from START to END

Turn in

The code you wrote or modified.

A link to the webpage.