Functions	
Brendon Burd	Christian Henry
sourceNode(nodeArray)	csvToArray(fileName)
nodeArray(array)	printArray2D(array)
getNeighbors(source, nodeAr, array)	visitedDict(array, source)
dvr(array, nodeAr, source)	alphabetize(array)
cleanOutputDVR(distDict, source)	dijkstra(array)
	cleanOutputDijkstra(shortest, prev, nodeAr, source)

Instructions:

- 1. Open terminal shell
- 2. cd to directory where .py file is located
- 3. Move topology file to same directory
- 4. Run the command "python project.py topology.csv"
- 5. Type in one of the following nodes: [u,w,v,x,y,z]

Screenshots:

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CSC450-Project — -zsh — 80×24
Last login: Sun Feb 20 16:47:40 on ttys001
(base) christianhenry@Christians-MBP ~ % cd Documents
 (base) christianhenry@Christians-MBP Documents % cd GitHub
 (base) christianhenry@Christians-MBP GitHub % cd CSC450-Project
(base) christianhenry@Christians-MBP CSC450-Project % python project.py topology
 .csv
Please, provide the source node: u
Shortest path tree for node u:
uw, ux, uwv, uwvy, uwvyz Costs of the least-cost paths for node \mathbf{u}:
u:0, v:6, w:3, x:5, y:10, z:12
Distance vector for node u: 0 6 3 5 10 12
Distance vector for node v: 6 0 3 7 4 6
Distance vector for node w: 3 3 0 4 7 9
Distance vector for node x: 5 7 4 0 7 9
Distance vector for node y: 10 4 7 7 0 2
Distance vector for node z: 12 6 9 9 2 0
(base) christianhenry@Christians-MBP CSC450-Project % python project.py topology
[(base) christianhenry@Christians-MBP CSC450-Project % python project.py topology]
 Please, provide the source node: x
 Shortest path tree for node x:
xu, xw, xy, xz, xwv
Costs of the least-cost paths for node x:
u:5, v:7, w:4, x:0, y:7, z:9
Distance vector for node u: 0 6 3 5 10 12
 Distance vector for node v: 6 0 3 7 4 6
Distance vector for node w: 3 3 0 4 7 9
Distance vector for node x: 5 7 4 0 7 9
 Distance vector for node y: 10 4 7 7 0 2
 Distance vector for node z: 12 6 9 9 2 0
(base) christianhenry@Christians-MBP CSC450-Project % ■
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