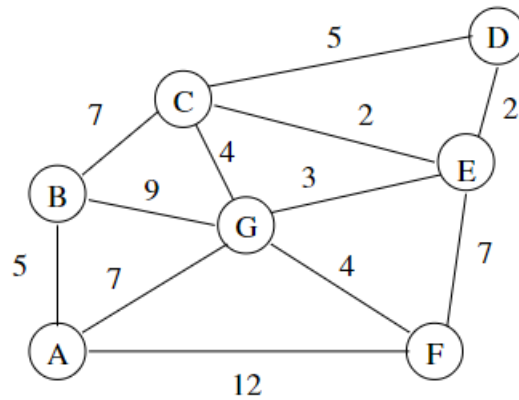


Dijkstra Worksheet



Execute Dijkstra's algorithm on the provided graph starting at vertex A. Indicate which vertex was selected at each iteration of the while loop and show the contents of the priority queue.

Iteration 1

$S = \{A\}$

Q:

	E: ∞
B:5	F:12
C: ∞	G:7
D: ∞	

Iteration 2

$S = \{A, B\}$

Q:

	E: ∞
	F:12
C:12	G:7
D: ∞	

Iteration 3

$S = \{A, B, G\}$

Q:

	E:10
	F:11
C:11	
D: ∞	

Iteration 4

$S = \{A, B, G, E\}$

Q:

	F:11
C:11	
D:12	

Iteration 5

$S = \{A, B, G, E, C\}$

Q:

	F:11
D:12	

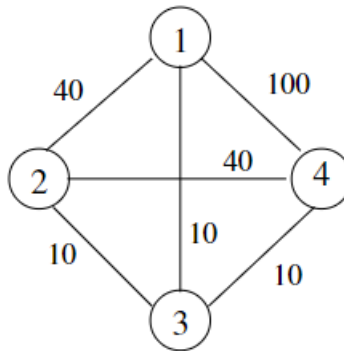
Iteration 6

$S = \{A, B, G, E, C, F\}$

Q:

D:12	

Floyd-Warshall Worksheet



1. What is $d[1, 4]_0$?
100
2. What is $d[1, 4]_1$?
100
3. What is $d[1, 4]_2$?
80
4. What is $d[1, 4]_3$?
20
5. What is $d[1, 4]_4$?
20