

Quizlet 6 version B (5 minutes)

15-110 F24 10/30

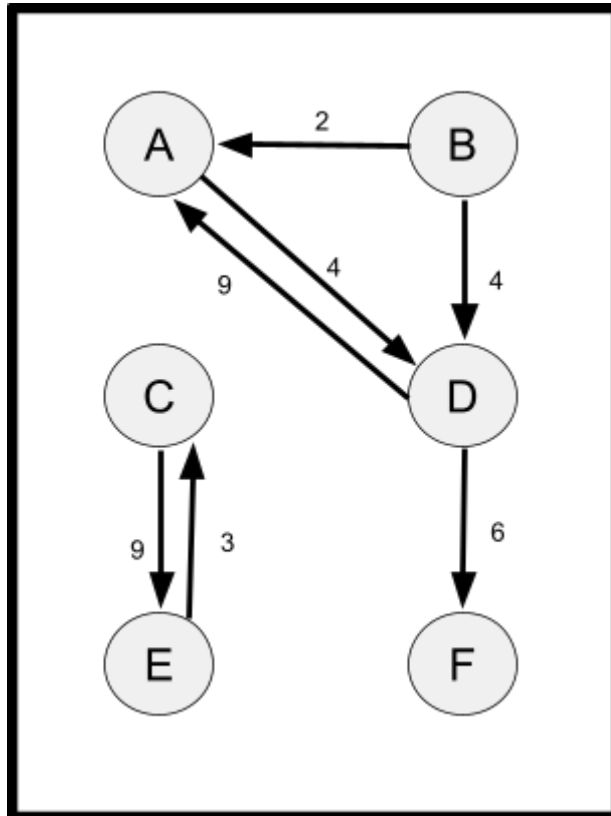
AndrewID: _____

Name: _____

These questions do not use concepts beyond week 7.

1. Graphs: In the box, clearly draw the edges labeled with their corresponding weights and directions so that they match the dictionary representation on the left. Do not include any unnecessary edges.

```
weightedGraph = {  
  "A" : [ ["D", 4] ],  
  "B" : [ ["A", 2], ["D", 4] ],  
  "C" : [ ["E", 9] ],  
  "D" : [ ["A", 9], ["F", 6] ],  
  "E" : [ ["C", 3] ],  
  "F" : [ ] }
```



2. True/False: Select True or False for each of the following statements about efficiency. Assume in all cases that n is very large.

- True False In the context of 15-110, big-O notation represents the best-case efficiency for a given algorithm
- True False Linear search on a sorted list has an efficiency of $O(\log n)$
- True False The $O(n^2)$ function family is more efficient than $O(2^n)$

Turn your quizlet face-down when you are done!