

## QotD15

Date Created: 7/5/15, 9:12:53 PM

Questions: 2

Date Modified: 7/5/15, 9:44:20 PM

1. Which of the following statements is TRUE?

*(1 point)*

- A. The BFS algorithm generates a minimum spanning tree
- B. The BFS algorithm generates a weighted shortest path tree
- ✓ C. The BFS algorithm generates an unweighted shortest path tree
- D. A weighted shortest path in a graph is always also an unweighted shortest path, but not vice-versa
- E. An unweighted shortest path in a graph is always also a weighted shortest path, but not vice-versa

2. Each iteration of Prim's Algorithm adds to the tree the smallest edge

*(1 point)*

- A. Remaining in the original graph

- ✓ B. Connecting a vertex in the tree to a vertex not in the tree
- C. Connected to the vertex added in the previous iteration
- D. Connecting two vertices that are not yet in the tree