

## QotD17

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**Questions:** 2

1. The "indexable" in an indexable priority queue enables

*(1 point)*

- A.  $O(1)$  insert
- B.  $O(1)$  deleteMin
- ✓ C.  $O(1)$  find
- D.  $O(1)$  change / update

2. A primary difference between Dijkstra's Algorithm and Prim's algorithm is how the priority is defined for a candidate vertex. The priorities are:

*(1 point)*

- A. Dijkstra's: Minimum weight edge connecting vertex to tree  
Prim's: Minimum weight path from source to vertex
- B. Dijkstra's: Minimum weight path from source to vertex
- ✓ Prim's: Minimum weight edge connecting

vertex to tree

C. Dijkstra's: Maximum weight edge connecting vertex to tree

Prim's: Maximum weight path from source to vertex

D. Dijkstra's: Maximum weight path from source to vertex

Prim's: Maximum weight edge connecting vertex to tree