

634145

Prim's Algorithm is used to solve what problem?

- a. Finding the lowest parent of a heap
- *b. Minimum spanning tree
- c. Shortest path in a graph from a source
- d. Sorting integers
- e.
- f. "
- g. "
- h. "
- i. "

General Feedback:

Prim's is used for MST.

630945

Which of the following abstract datatypes would be the best choice for part of the implementation of the back button on a Web browser?

- *a. a Stack
- b. a Queue
- c. a Priority Queue
- d. a List
- e. a Dictionary
- f. "
- g. "
- h. "
- i. "
- j. "

General Feedback:

When you click on the back button, you should see the last page you visited, so the datatype that stores the previously visited webpages must be last-in-first-out. Of the abstract datatypes listed, Stack is the only one that is last-in-first-out.

630947

Which of the following abstract datatypes would be the best choice for part of the implementation of a program modeling the arrival of patients to an emergency room in a hospital?

- a. a Stack
- b. a Queue
- c. A List
- *d. a PriorityQueue
- e. a Dictionary
- f. "
- g. "
- h. "
- i. "
- j. "

General Feedback:

In an emergency room, you want to serve patients in the order of how urgent their condition is, and if two patients have equally urgent conditions, in the order that they arrived. A PriorityQueue is the only abstract datatype listed that meets both of these conditions.