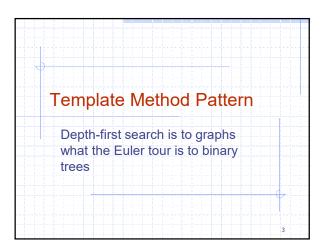
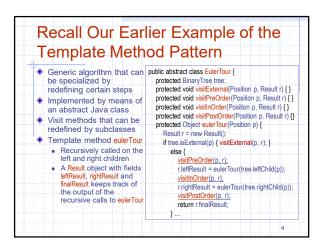
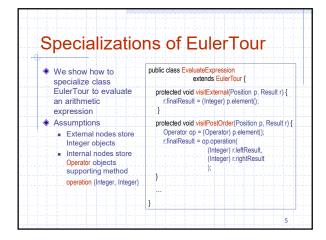
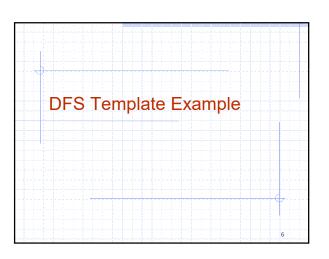


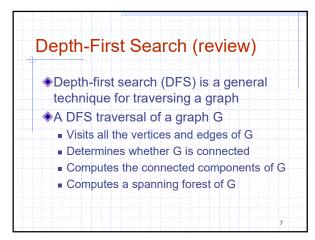
In a weighted graph, the shortest path algorithm finds the path between a given pair of vertices such that the sum of the weights of that path's edges is the minimum. Natural law always chooses the path of least action, the shortest path to the goal with no wasted effort.

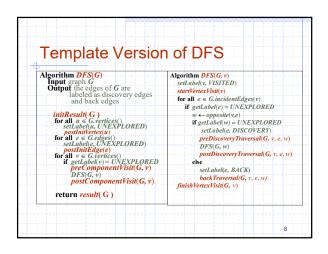


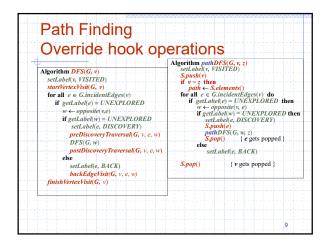


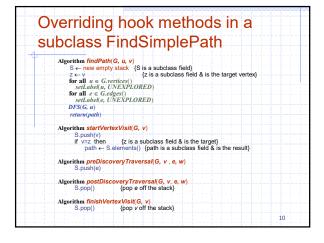


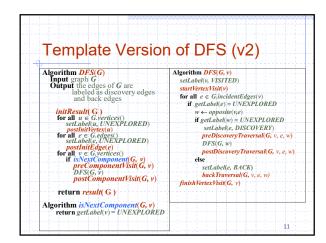


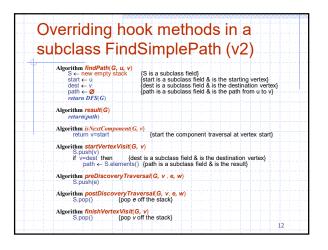


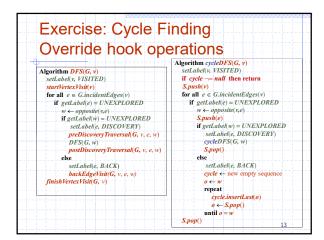


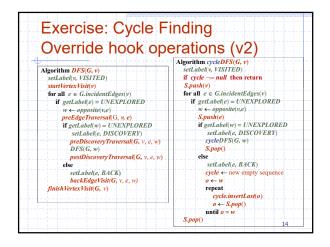


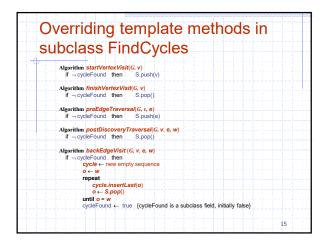


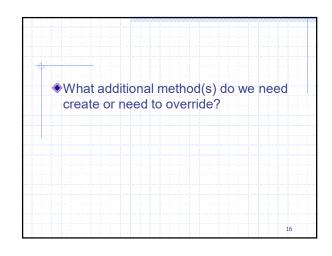


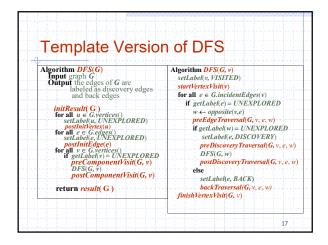


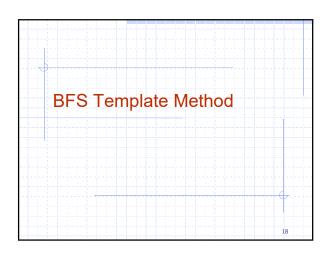


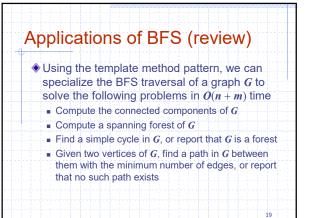


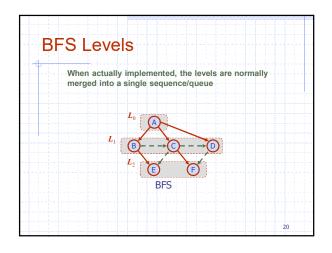


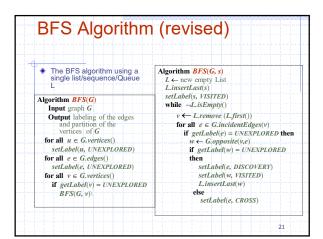


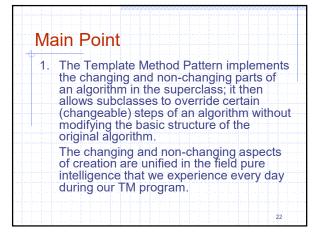


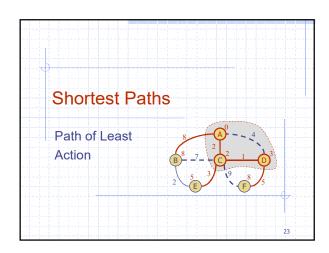


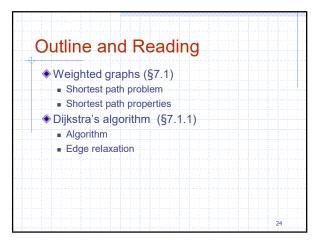


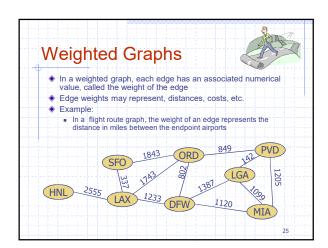


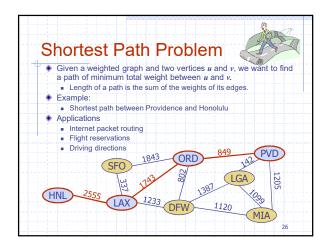


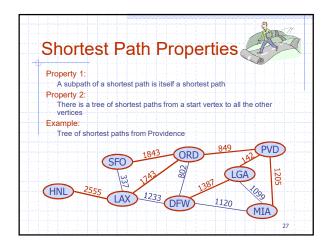


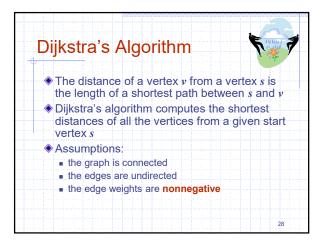


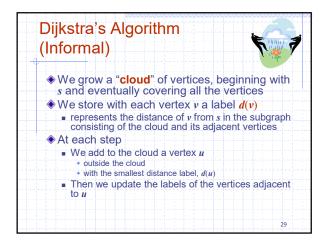


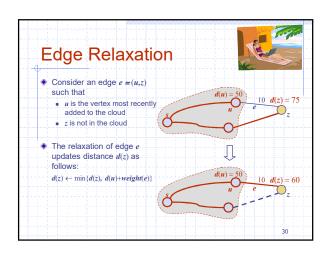


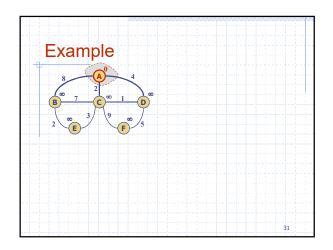


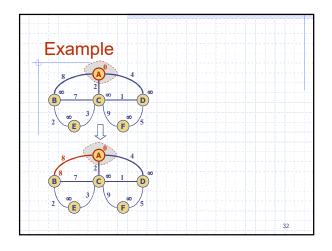


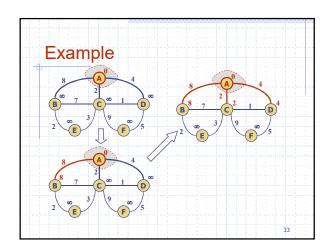


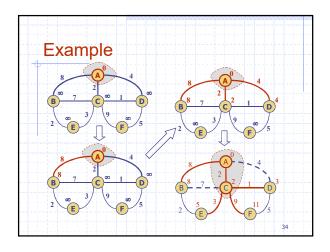


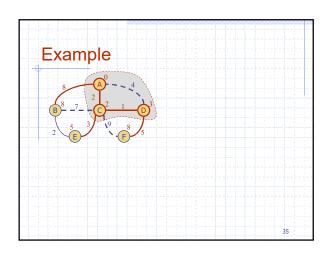


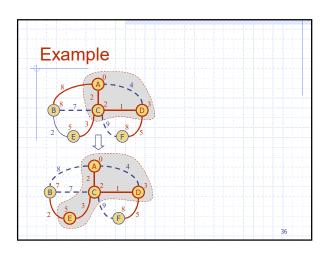


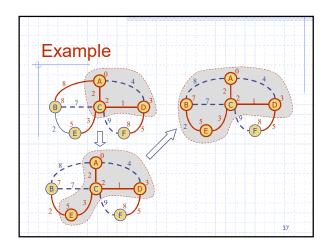


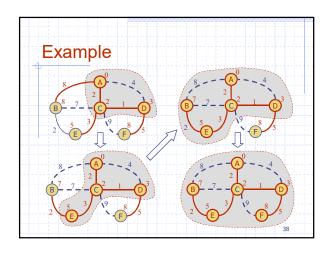


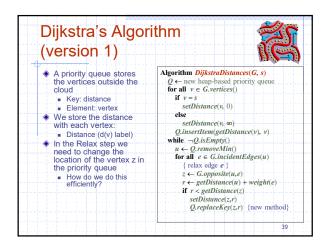


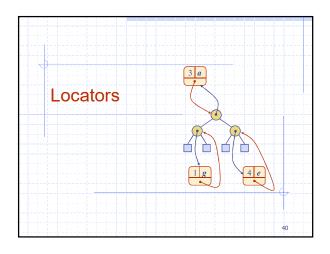






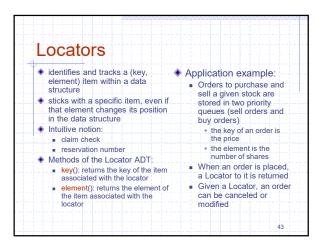


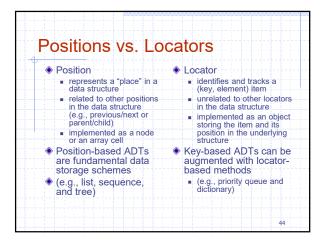


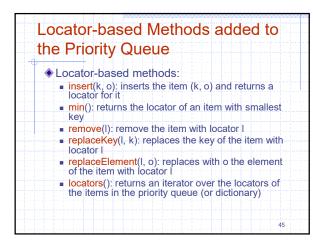


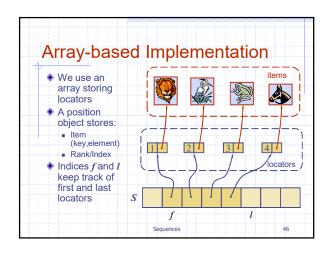
Outline and Reading Locators (§2.4.4) Locator-based methods (§2.4.4) Implementation Positions vs. Locators

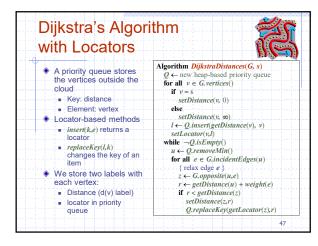
Locator Design Pattern A mechanism for maintaining the association between an item and its current position in a container When an item is inserted into a container, we get back a locator for that item this locator can be used later to refer to that same item in the container even if its position has changed an item's position may change when items are inserted or an item's key is changed

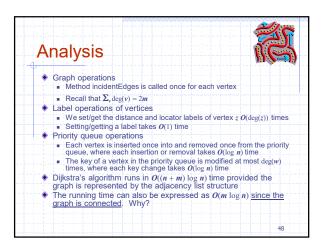


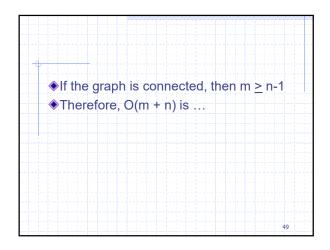


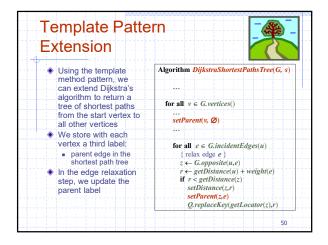


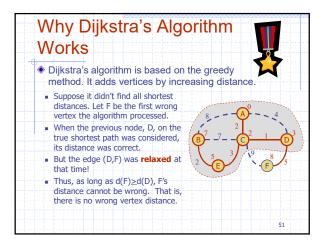


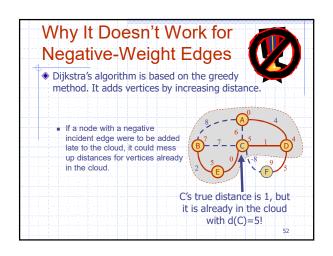


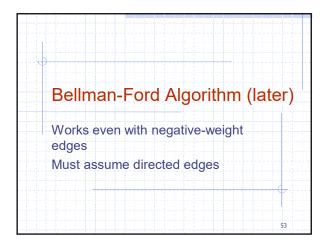




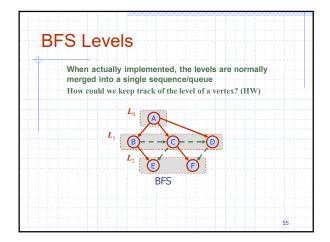








Main Point 2. By using the adjacency list data structure to represent the graph and a priority queue enhanced with locators to store the vertices not yet in the tree, the shortest path algorithm achieves a running time O(m log n). The algorithms of nature are always most efficient for maximum growth and progress.



Connecting the Parts of Knowledge with the Wholeness of Knowledge

- Finding the shortest path to some desired goal is a common application problem in systems represented by weighted graphs, such as airline or highway routes.
- By systematically extending short paths using data structures especially suited to this process, the shortest path algorithm operates in time O(m log n).

3. Transcendental Consciousness is the silent field of infinite correlation where everything is eternally connected by the shortest path.

Impulses within Transcendental
Consciousness: Because the natural laws
within this unbounded field are infinitely
correlated (no distance), they can govern all
the activities of the universe simultaneously.

5. Wholeness moving within itself: In Unity Consciousness, the individual experiences the shortest path between one's Self and everything in the universe, a path of zero length.