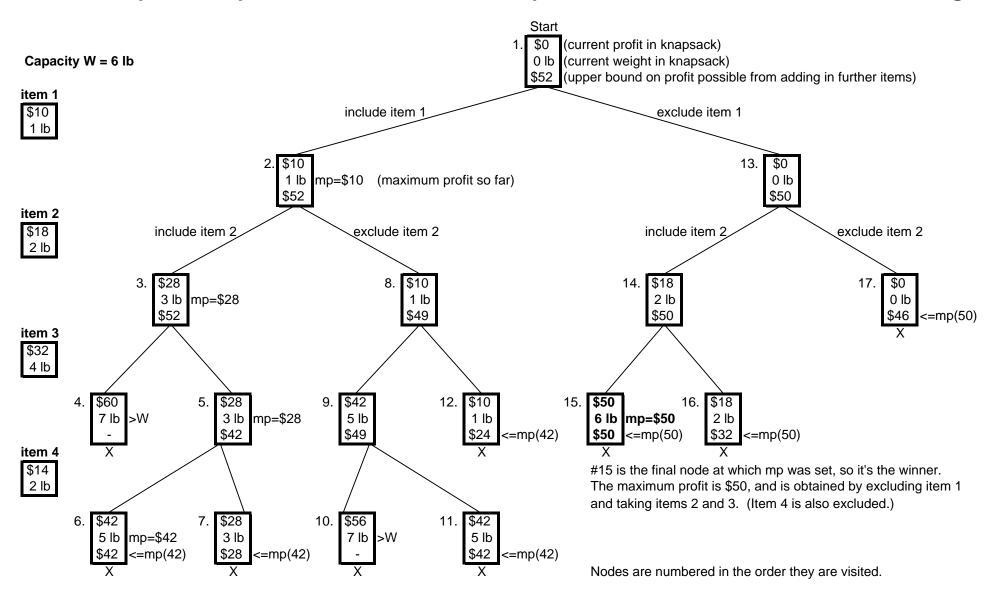
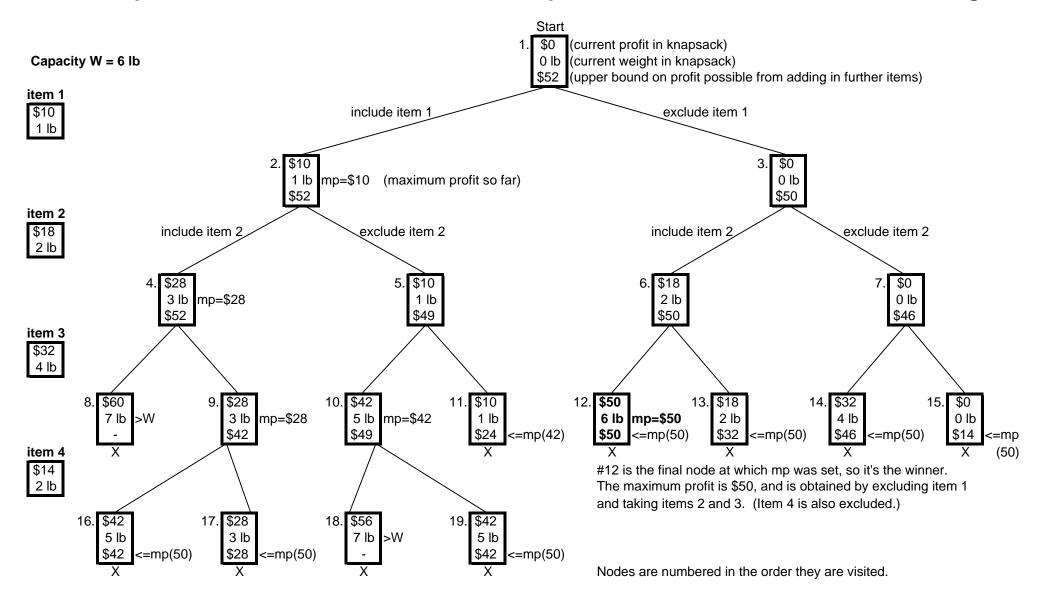
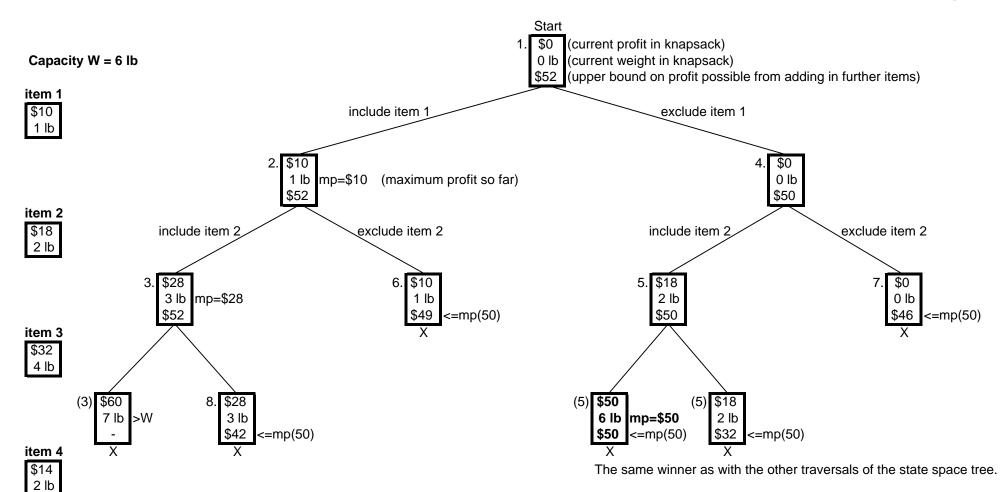
0-1 Knapsack: Depth First Traversal of State Space Tree with Branch-and-Bound Pruning



0-1 Knapsack: Breadth First Traversal of State Space Tree with Branch-and-Bound Pruning



0-1 Knapsack: Best First Traversal of State Space Tree with Branch-and-Bound Pruning



Nodes are potentially seen twice.

The triplet of numbers in each node is computed when its PARENT is expanded.

The node is then placed in a priority queue if it's promising.

The nodes are dequeued in the order 1,...,8 shown, according to which has the highest potential profit of currently enqueued nodes. If a node is still promising, its children are computed and enqueued. Nodes numbered (3) (5) are computed when their parents are expanded, but do not get enqueued.