

Review QUIZ 1 of 1

Branch-and-Bound (B&B)

(All questions are based on Lecture Notes. Go to the Lecture Notes and fully understand the topics!)

Q1. Branch-and-Bound? Compare B&B vs Backtracking?

[GO TO Lecture Note Slide #8, #9, #10, #13]

Q2. Bound? What? How used?

[GO TO Lecture Note Slide #9, #11, #14]

Q3. Draw the pruned SST of The 0-1 Knapsack Problem via Best-First Search with Branch-and-Bound?

$n = 4$ & $W = 16$ lb

Item1 = \$40 & 2 lb

Item2 = \$30 & 5 lb

Item3 = \$50 & 10 lb

Item4 = \$10 & 5 lb

[\[GO TO Lecture Note Slide #27, #28, #29\]](#)

Q4. Compare Brute-Force Approach vs Backtracking vs Branch-and-Bound?

[\[GO TO Lecture Note Slide #37\]](#)