

# Branch and Bound presentation

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Design strategies to solve that problem with a branch and bound without relying on ILP formulation. The components are:

- 1) what is the problem and why is it important?
- 2) How are subsets represented and how is partitioning of the solution space accomplished?
- 3) How are the branching decisions made? In which order are the partitions made?
- 4) How is bounding going to work? Which relaxations can be done? How would the relaxed problems be solved optimally?
- 5) What order of the traversal seems to make sense for this problem and branching and bounding strategy?
- 6) Are there symmetries or dominance properties that can be taken advantage of?
- 7) How would deriving a solution from a particular subset be accomplished?