**Lesson 25 – Graphs III**

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Exam III Review:

* Points: 100
* Exam sections:
  + Matching (10 Points)
  + True/False (20 points)
  + Multiple Choice (45 points)
  + Short answer (25 points)
* Review:
  + Construct a binary tree.
  + Describe the different balanced search trees.
  + Construct a heap.
  + Construct a 2-3 tree.
  + Explain the different approaches for handling collisions in a hash table.
  + Describe the characteristics of a good hash function.
  + Calculate the load factor and use it to measure the efficiency of search in a hash table.
  + Define the terms associated with graphs.
  + Construct a graph from an adjacency matrix.
  + Construct an adjacency matrix from a graph.
  + Construct an adjacency list from a graph.
  + Compare and contrast the time-complexity of various ADT implementations.