# Lab # 10

## Constructing Huffman tree

You are given the files:

a. Heap.java   // code for Heap class
b. HuffmanNode.java // code for building a Huffman tree
c. testHuffman.java // test cases for your JUnit

Write the following methods in class HuffmanNode: (You must not change existing methods or change any variable modifier (ie. Do not change private to public).

- **`public static HuffmanNode buildHuffmanTree(Heap h) throws Exception`** (10 marks)

This method creates a Huffman tree from a given heap (using the method defined in the lecture). It returns the root node of the constructed Huffman tree.

**How to submit:**

Submit the jar file of your project (the jar file must include all your java files and test cases) to Courseville (all files must be together inside the jar file and name your jar file **YourID_Lab10_Huffman** where YourID is your student ID).