# Self-study session 3, Discrete mathematics 

First year mathematics for the technology and science programmes Aalborg University

Read section 11.2 (only pp. 726-733 and Figure 6 on p. 734) in Rosen's book about binary search trees, decision trees and Huffman coding.

Solve the following exercises from section 11.2:
1, 4, 5, 13, 15, 17, 19.

Read section 11.4 (only pp. 755-761) in Rosen's book about depth-first search, breath-first search and backtracking.

Solve the following exercises from section 11.4:
9, 10, 17, 18, 19.
And also the following continuation of exercise 19:
Opgave A: Use backtracking to find all Hamilton paths, starting in a, in the following graph:


How many Hamilton paths starts in a
Determine the number of Hamilton circuits in this graph.

