Fifth written examination of Algoritmos e Estruturas de Dados

December 14, 2015 Duration: no more than 30 minutes

- 6.0 1: The adjacency matrix and adjacency lists are two common ways to represent graphs. Explain each one. For sparse graphs, which one should be used?
- 5.0 2: Give an example of a divide-and-conquer algorithm, and explain how it works.
- 4.0 3: What is dynamic programing?
- 5.0 4: Describe an algorithm that given a graph and two of its vertices, p and q, finds all simple paths (without loops) that start at p and end at q.