Analysis of Algorithms: Assignment 3

Due date: January 25 (Thursday)

Problem 1

Write pseudocode for the MERGE(A, p, q, r) procedure.

Problem 2

Write an algorithm that combines INSERTION-SORT and MERGE-SORT. It should use INSERTION-SORT for small segments of the array, and recursively merge sorted segments. A segment $A[p..r]$ is "small" if its length is no larger than some fixed value k, that is, $r - p < k$.