## Analysis of Algorithms: Assignment 2

Due date: January 15 (Wednesday)

## Problem 1 (5 points)

Give an algorithm that determines the number of distinct elements in an integer array A[1..n]. For example, if the array is  $\langle 4, 1, 4, 6, 1 \rangle$ , the algorithm should return 3, since this array has three distinct elements.

## Problem 2 (5 points)

Estimate the worst-case running time of your algorithm using the method described in class.