

Quiz I

K. Subramani
Department of Computer Science and Electrical Engineering,
West Virginia University,
Morgantown, WV
ksmani@csee.wvu.edu

1. (a) Devise a *Divide-and-Conquer* algorithm to find both the maximum and the minimum of an array of n elements.
(b) Formulate a recurrence to describe the running time of your algorithm
(c) Provide an analysis of the running time (Make the bound as sharp as you can).

Remark: 0.1 You are all guaranteed $O(100)$ points.