Philadelphia University



Student Name:

Faculty of Engineering

Student Number:

Dept. of Computer Engineering

First Quiz, First Semester: 2010/2011

Course Title:Algorithms and Data StructuresDate:11/11/2010Course No:630231Time Allowed:10 minutesLecturer:Dr. Qadri HamarshehNo. Of Pages:1

Information for candidates

1. This Quiz paper contains 1 question totaling 5 marks

2. The marks for parts of question are shown in round brackets.

Advices to candidates

- 1. You should attempt all sub questions.
- 2. You should write your answers clearly.

Question 1 (5 marks)

a) Characterize the following algorithm n terms of Big-O notation. Also find the exact number of additions, subtractions, and multiplications executed by the loop. (2 marks)

b) Add the function **min** to the class **arrayListType** using template mechanism to return the smallest element of the list. Also, write the definition of the function **min**. (3 marks)