Philadelphia University

Faculty of Engineering

Student Name:

Student Number:

Course Title:	**Algorithms and Data Structures**	Date:	19/12/2010
Course No:	630231	Time Allowed:	10 minutes
Lecturer:	Dr. Qadri Hamarsheh	No. 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)*

Write member function, call it **divideMid**, this function splits the given list in two sublists of (almost) equal size, with the following prototype:

```
void divideMid(linkedListType<Type> &sublist);
```

Consider the following statements:

```
unorderedLinkedList <int> mylist;
unorderedLinkedList <int> sublist;
```

Suppose **mylist** points to the list wih elements **34 65 27 89 12**, the statement

```
mylist.divideMid (sublist);
```

Divides **mylist** into two: **mylist** points to the list with the elements **34 65 27**, and **sublist** points to the sublist with elements **89 12**.

GOOD LUCK