

PRACTICAL TEST- Spring 2020

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SUBJECT: DATA STRUCTURES AND ALGORITHMS using JAVA

Duration: 85 minutes

STUDENT INFORMATION

Name:		Roll number:	
Room No:		Class:	

FOR STAFF ONLY

MARK	QUESTIONS

Signature of Proctor

Students kindly create two Java projects for these two questions. Thank you :-D

Question 1: (5 marks)

Write a Java program to implement a singly linked list of integer values with the following operations:

- int [] toArray() - create and return array containing info of all nodes in the list.
- void addBefore(Node p, int x) - add a node with value x before the node p.

Question 2: (5 marks)

Write a Java program has the methods for Depth-First Search algorithm