

# Intro to Data Structures and Algorithms Exercises

Re-submit Assignment

**Due** Mar 16, 2017 by 11:59pm

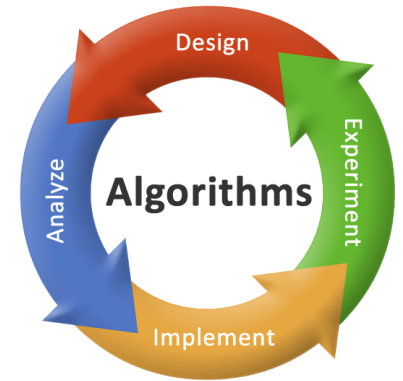
**Points** 100

**Submitting** a file upload

**File Types** zip

## Overview

Complete the following exercises from your book. Any problem that mentions inputs from the command-line can instead take inputs from the Java console. Also, your book may use the term "standard input" synonymously with the Java console.



## Problems

### 1.2.2 (code sample)

- You can just enter some test intervals into a driver program, rather than using command-line arguments.
- Review on intervals: <https://www.mathsisfun.com/sets/intervals.html>

### 1.2.6 (code sample, make sure to test this thoroughly)

### 1.2.7 (drawing an illustration of the method calls can help here)

### 1.3.3

### 1.3.4 (code sample, you can use Java's Stack class here)

### 1.3.6

### 1.3.13

### 1.3.14 (code sample)

- Your queue class should have the following methods:
  - enqueue()
  - dequeue()
  - size()
  - isEmpty()
- Your queue must resize the internal array when you exceed the size of the internal array.

### 1.3.27 (code sample, this will require you to write a linked list Node class)

## Submission

- Submit all code samples in a single Eclipse Project, with a proper name

- Submit all non-coding answers in a single Word document (not PDF or HTML or any other format)