

GAME255 DATA STRUCTURES & DESIGN PATTERNS

LAB 2: JOSEPHUS POSITION WITH DOUBLE CIRCULAR LINKED LISTS

PROFESSOR: Jean – Paul Amore

GRADE VALUE: 25 Marks = 6% of Final Grade

END DATE: Week 4

REQUIREMENTS:

Using the provided project solution, complete the implementation for the member function void CDList<T>::getJosephusPosition(int).

The Josephus Position assumes there are n people standing in a circle waiting to be executed.

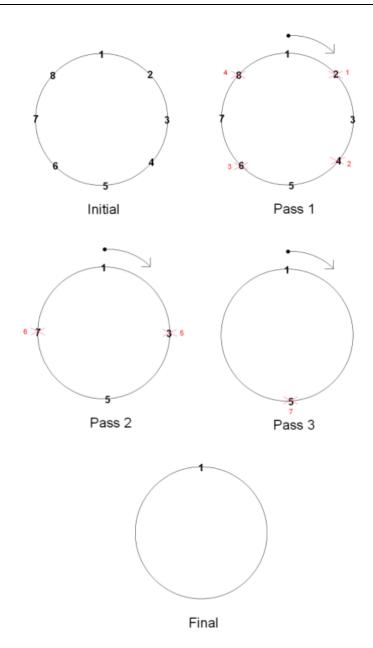
As the execution begins at some point in the circle, it proceeds around the circle in a fixed direction. During each execution, a specified number of people are skipped, and the next person is executed.

The elimination proceeds around the circle as people are executed, and ends when there is one person remaining, who is given freedom.

Using the double circular linked list, determine the position which will grant freedom.



School of Media Studies & Information Technology



DELIVERABLES:

Submit the Main.cpp file with the implemented method void CDList<T>::getJosephusPosition(int).

LAB #2							
	CRITERIA	0 POINTS	1 POINT	2 POINTS	3 POINTS	4 POINTS	5 POINTS
1.	LOGIC	Did not submit	Does not demonstrate ability to use logical process	Poorly demonstrates ability to use logical process	Somewhat demonstrates ability to use logical process	Demonstrates ability to use logical process	Demonstrates exceptional ability to use logical process
2.	EFFICIENCY	Did not submit	Does not demonstrate any efficiency	Poorly demonstrates efficiency	Demonstrates some efficiency	Demonstrates efficiency	Demonstrates exceptional efficiency
3.	FUNCTIONALITY	Did not submit	Asset is not functional	Asset is barely functional	Asset is somewhat functional	Asset is functional	Asset is exceptionally functional
4.	PROCESS & ORGANIZATION	Did not complete assigned work	No code follows a systematic and organized approach to problem solving	Parts of code follows a systematic and organized approach to problem solving	Some code follows a systematic and organized approach to problem solving	Most code follows a systematic and organized approach to problem solving	All code follows a systematic and organized approach to problem solving
5.	TEST CASE	Did not complete assigned work	Does not compile	Barely any code functions with test case	Partially functions with test case	Mostly functions with test case	Fully functions with test case