
Quiz 7 – Concurrency

(a)	(b)	(c)	Total
(5)	(2)	(3)	(10)

L1: Student Name: _____

- Q1) Let's assume there is a concurrent process comprising 4 threads. This process implements a binary tree, where each node contains a value of type '*int*,' and two pointers, one pointing to the left, and one to the right child.
- (a) Write down a function named 'flip_children' which flips the left child with the right, such that when one thread is active on a given node, another thread is not allowed to make changes to it. (5)
- (b) In addition to the above function, please provide coding details on the node itself and any global variables you might use. (2)
- (c) Write down the associated main function. Where you initialize a tree comprising three nodes, i.e., one root node and two children as leaves. You may initialize them with any value. (3)