CS140 Homework 3 [10 pts]

Due 11.10am Tuesday January 29, 2019

Problem 1

See list_handout.pdf for the class definition and implementation of a double linked list. Rewrite the findnode(int index) function to perform a forward search in the first half of the list if index<N/2 and a backward search in the second half of the list otherwise. The result should be that no more than N/2 nodes will be visited as part of a search.

Hint: Sketch what you are trying to accomplish on a piece of paper before you think about the code.