

Lab Assignment 2.

Due Wednesday, June 16, 23:00

Data Structures Engi 4892, 2004. T. Norvell

0 Implementing the Function ADT

Implement the Function ADT described in the course notes using linked lists.

You must ensure that when space is exhausted, the appropriate exception is thrown.

You must ensure that nodes no longer needed in the list are deleted.

You must ensure that each operation meets its specification.

You may use singly or doubly linked lists. You may use null termination, a length field, or a circular list. You may use a dummy nodes or not. You may use recursion or not. All these choices are up to you.

Efficiency is not a big concern for this assignment. The map, at, and remove functions may take time proportional to the current size of the partial function.

I will provide a file `function-ll.h`. You must complete this file and submit it via websubmit.