

302-A03 Using linky to implement a queue ADT

This exercise is more of a practice drill. Repeat the work you did for exercise 302-A02 but this time to implement an integer queue ADT. You will use the following files;

- **queuey.h** will contain the headers (aka declarations) of our functions.
- **queuey.c** will contain the definitions of some of these functions
- **tests_queuey.c** will contain the main function which tests all of the above

Functions to implement reusing the integer linked list ADT

void TCell_enqueue (TCell list, int value);**

- create a new TCell to store the integer *value*
- add it in front of the linked list **list*.

int TCell_dequeue (TCell list);**

- locate the last element of the linked list and store its int value in a temporary variable *value*
- Deallocate the TCell structure corresponding to the last element of the linked list and update the linking in the linked list accordingly
- Return the value *value*

Adding new tests

Use the **tests_queuey.c** main function to design and implement tests which are going to allow us to easily and visually validate the functions you implemented.