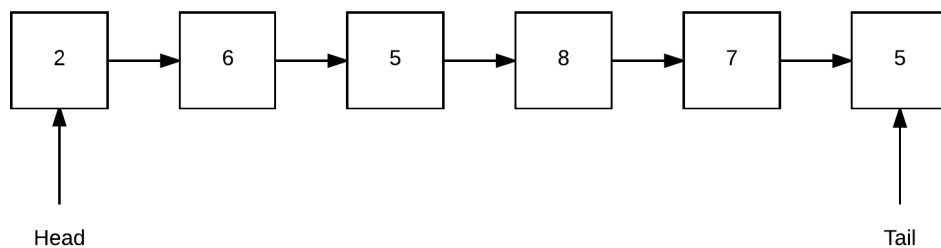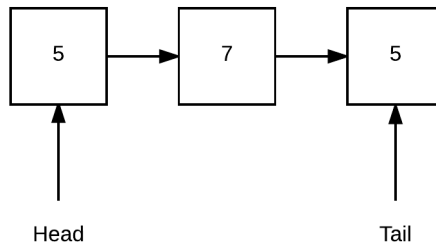# Labwork 1

Add the following member functions to the IntSLList class provided to you. You will need to change both header and cpp files. Submit both of these files. Your work should be able to compile and run with the example main file provided. Your work will be evaluated using Visual Studio 2015.

Q1) Add the member function `void remove_even()` to IntSLList class. This function should remove all nodes that store an even number from the linked list. An example is given below. Remember to take care of memory leaks and corner cases. One corner case is included in the example below: if the head node is holding an even number, head pointer should be updated so that it points to the new first element.
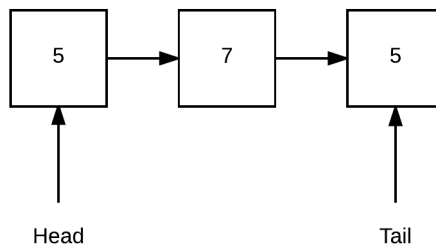
Before

```
+---+     +---+     +---+     +---+     +---+     +---+
| 2 | --> | 6 | --> | 5 | --> | 8 | --> | 7 | --> | 5 |
+---+     +---+     +---+     +---+     +---+     +---+
  ^                                                 ^
  |                                                 |
Head                                               Tail
```

After

Q2) Add the member function `void duplicate_fives()` to IntSLList class. This function should insert new nodes that hold 5 for every node that holds 5. An example is given below. Remember to take care of memory leaks and corner cases. One corner case is included in the example below: if the tail element of a list holds 5, tail pointer should be updated so that it points to the new last element.

Before

After