

### Explanation on the choice of data structure:

I chose to implement **Doubly Linked List (DLL)** to store the data in this project (**pets**, **wild animals**, animal **abusers** and **abandoners** as well as treatment entries). The idea behind this is that I want to store a Pet/Wild Animal object, with all of its attributes (Sanctuary ID, Vaccinated, etc..), inside a node of the linked list.

#### Advantages of DLL:

- + Inserting is much easier comparing to list
- + Can be searched from both ends (this will be elaborated later down this document)

#### Disadvantages of DLL:

- Access time is not  $O(1)$  comparing to list
- Searching is not the fastest among the data structures.