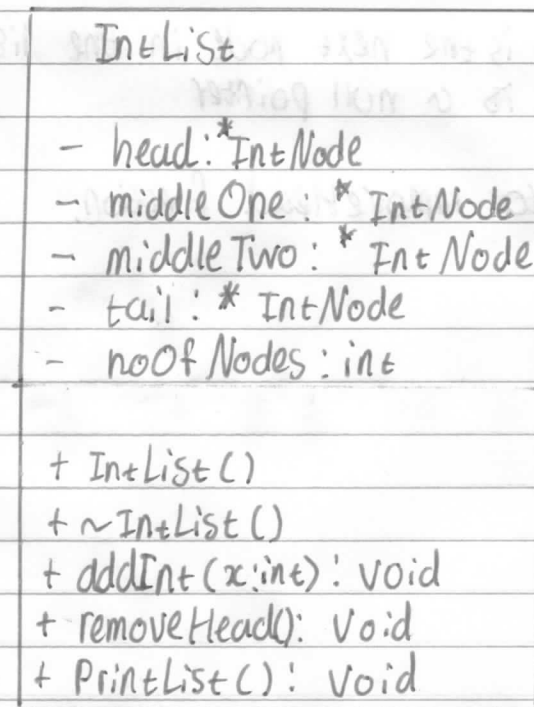
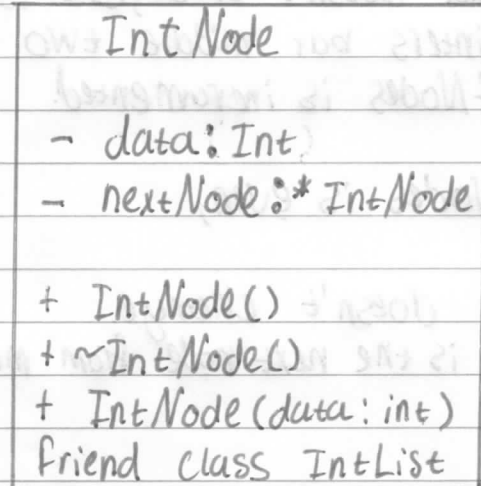


Assignment 8 Design

UML Diagrams



Explanation of core functions

`addInt` → If the head doesn't exist, one is created and all pointers but `middleTwo` point to it. `noOfNodes` is incremented.

When `noOfNodes` is even,

→ `MiddleOne` doesn't change.

→ `MiddleTwo` is the next node from `middleOne`

When `noOfNodes` is odd,

→ `MiddleOne` is the next node in the list.

→ `MiddleTwo` is a null pointer

The same logic applies to `removeHead` function.

Testing: → Test all functions with an empty list.

→ Test lists of both odd and even lengths

→ Test a list constructed with only one constructor, or a combination of the two constructors

→ Test the destructor to guarantee it removes all the nodes.

→ Attempt printing different lists, including an empty list.