In class assignment 3:

Create a structure that represents a doubly linked list. The structure will contain a series of customer classes. The customer class will have the following properties: First Name, Last Name, Date of Birth. The customer class will also have a method that calculates and returns the age of the customer.

In addition to the customer fields described above the customer will contain two additional fields both of type customer (yes, the customer class can have a property of the same type). The customer properties within customer must be called ‘Previous’ and ‘Next’. The next property will ‘point’ to the next customer in the chain and the previous property will point to the previous customer in the chain. The first customer will have null (nothing) in its previous property and the last customer will have null in the next property. See the diagram below:

Once the structure is populated with customers construct two loops. The first loop will iterate through the customer structure and print out the first name, last name and age of the customer from the first customer through to the last customer. The second loop will start at the last customer in the structure and in reverse order go through all the customers, print the same customer information and stop at the first customer.