In order to have something to discuss at interview, we propose the candidate to write a small solution based on so-called code kata. This is not a formal test, but a small abstract piece of work.

Terms of the assignment

Use C# 7.0 (or later) to build the program that complies to the following Definition of Done:

User story Acceptance criteria fulfilled;
Test should be done;
The solution is deployable;
Documentation is created or updated.

The resulting code must be in production-ready state and must fulfil the acceptance criteria outlined below.

Related materials should be submitted to SimCorp representatives as a link to public repository at github.com.

Acceptance criteria:

1. It's required to implement linked list that has the following basic interface:
   - 1.1 The list consists of nodes. Each node has a string value, along with whatever housekeeping the list itself needs.
   - 1.2 New nodes are added to the end of the list.
   - 1.3 You can ask the list if it contains a given string. If it does, it returns the node containing that string.
   - 1.4 You can delete a node from the list.
   - 1.5 You can ask the list to return an array of all its values.
2. Create two implementations of the list:
   - 2.1 A singly linked list (each node has a reference to the next node).
   - 2.2 A doubly linked list (each node has a reference to both the next and previous nodes).
3. Obviously, don't use predefined library classes as list implementations.