

Stack assignments

1. Implement unlimited size stack
2. Implement limited size Stack
3. Reverse the content of file using Stack
4. Match the parentheses using Stack
5. Match the tags in HTML file using Stack
6. Implement a function with signature `transfer(S,T)`. This function transfers all elements from Stack S to Stack T. The sequence of elements in T should be same as that of S.
7. Implement “Forward” and “Back” buttons of browser using Stacks. Elements need to be stored are URLs.
8. Modify Q5 such that HTML tags may contain attributes along with tag name.

Queue assignments

1. Implement “Simple Queue” using list data structure.
2. Modify Q1 such that Simple Queue can contain limited amount of elements.
3. Implement “FlexiQueue” with capacity to expand and shrunk based on elements to be added or deleted.
4. Implement Stack using two Queues
5. Implement Queue using two Stacks
6. Assume that we have Queue with some elements. Write method `rotate()` which added the existing elements in the reverse order.

7. Implement findMax() method, which return the maximum value of element present in the queue. After finding maximum element, queue content should be same as original.