CMPE226 HW2

Due Date: 19.01.2020 Midnight

Question: In this homework you are expected to develop a simple version of the web browsers' "**Go back one page**", and "**Go forward one page**" functionality utilizing <u>two stacks</u>. These two stacks will be called as **backward_stack** and **forward_stack**. They will keep the web addresses that you visited previously.

In the application you will generate a menu as displayed in the sample run and allow user to select following functionalities; "**visit new webpage**", "**go back one page**", "**go forward one page**". Do not forget that the webpage you currently are in <u>may not</u> have a previous page or a forward page. If that is the case, you must give appropriate error messages. Check the sample output thoroughly to understand the application functionality.

Important Note: Use "LStack.h" header file on the moodle web page, which is also attached to this homework notification. Do not change any functionality within the header file or upload your own header file. Your home-works will be graded only with the given header file.

Important Note: Cheating is strictly forbidden. It will result in a 0 (Zero) grade.

Sample Run: (Bold strings below are user inputs)

```
Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: N

Enter new page address: www.google.com

You are currently visiting google.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: F

Error! There is no Forward page.

You are currently visiting google.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: N

Enter new page address: www.instagram.com

You are currently visiting instagram.
```

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: **B**

You have gone back one page.

You are currently visiting google.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: **B**

Error! There is no page before.

You are currently visiting google.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: **N**

Enter new page address: **www.coursera.org**

You are currently visiting coursera.

Forward Stack cleared.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: **F**

Error! There is no Forward page.

You are currently visiting coursera.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: **B**

You have gone back one page.

You are currently visiting google.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: **F**

You have gone to the Forward page.

You are currently visiting coursera.

Choose(N)ew page, go (B)ack one page, go (F)orward one page (Q)uit: **Q**

Thank you for using this simple browser. Have a nice day.