

## Assignment 6 | 9th January 2021

---

For any doubts regarding the assignment, ask questions in the [Data Structures and Algorithms](#) Group in the Community.

Submit Assignments by **12th January 2021 11:59 PM**

Assignment Submit Form: <https://forms.gle/NNBMrBwhTFKhuP5h6>

**Submit assignments in Appropriate Dropdowns.**

---

### Question 1

Write a program implementing insert, delete and display operation of Circular Queue.

### Question 2

A Barua number is a number which consists of only zeroes and ones and has only one 1. Barua number will start with 1. Given numbers, find out the multiplication of the numbers. Note: The input may contain one decimal number and all other Barua numbers. (Assume that each number is very large and total number of values give is also very large)

**Input 1:** 100 10 12 1000

**Output 1:** 12000000

**Input 2:** 100 121 10000000000000000

**Output 2:** 12100000000000000000

**Input 3:** 10 100 1000

**Output 3:** 1000000

### Question 3

Implement push, pop and find the minimum element in a stack in  $O(1)$  time complexity.

## FAQs

---

**Q. When do I submit the Assignments and how?**

- A. The assignments for the week should be submitted by 12th January 2021 i.e. Tuesday 11:59 PM IST.
- B. You need to submit the answers in Document Format

**Q. Where do I get class links for the next session?**

- A. All sessions will be Live on our Youtube Channel. Subscribe to LetsUpgrade [YouTube Channel](#). You'll also get an email with the link to the live session.
- B. It will be also updated in the Community Group in the pinned post.

**Q. I have some doubt, who do I ask?**

- A. Post your Queries on the community, someone will help you out.

**Q. How can we know if my assignment is verified or not? And is it successfully submitted or not?**

- A. You will receive a mail for your successful submission.