

# Instructions for DSA Lab 3

## Instructions

Follow the steps below to complete DSA lab 3.

### Step 1: Read Lab2 Question

Read the Lab 3 questions given in the file `L3_question.pdf`.

### Step 2: Rename the cpp template file

Rename the following **two** cpp file names:

1. `L3_Q1_YourBITSid.cpp` file
2. `L3_Q2_YourBITSid.cpp` file

Use your own (13 character) BITS Id in place of `YourBITSid` in the above file names.

### Step 3: See the input and the expected output

Use the following command to see the input and the expected output for test case T1.

```
:~$ ./RunTestCase.py Q1 YourBitsId T1
```

### Step 4: Compile and Run your program

Modify the file `L3_Q1_YourBITSid.cpp` to solve problem Q1. Use the following command to compile and run your program for test case T1.

```
:~$ ./RunTestCase.py Q1 YourBitsId T1
```

Repeat this step until your algorithm passes all the three test cases : T1, T2 and T3.

### Step 5: Solve Q2

Modify the file `L3_Q2_YourBITSid.cpp`. Type Q2 instead of Q1 in the commands given in steps 3 and 4. Repeat steps 3 and 4 to solve the problem Q2.

### Step 5: Create zip file and submit

If you feel your program is ready for submission, run the following command.

```
:~$ ./CreateSubmission.py YourBitsId
```

The above command should create a zip file. Upload the zip file on Quanta. Do **not** rename or modify the zip file.

## Note

The lab will end at 5:50 PM. Submissions will be accepted only through Quanta. Submissions will **not** be accepted through email or through any other means. Your submission will be evaluated only if you follow the above instructions and submit the correct zip file before 5:50 PM.