January 2023 CSE 208

Online on Priority Queue - B1 & B2

Total Marks: 10 **Time Duration: 25 mins**

In your assignment, you implemented a max priority queue using the binary heap data structure. But now you have to use your priority queue ADT to realize a LIFO stack. You need to implement the following functions:

Push(int x)

Pop()

Size()

Remember, you should have kept the provision of templates in your priority queue ADT. That should make your life easier.

Input Output Format

Make a main menu to properly show the functionalities of the stack. Take a choice input (1, 2, 3 for Push, Pop and Size respectively). If necessary, take the argument as input. Then perform the intended operations.

Submission Guideline

1. Create a directory with your 7 digit student id as its name
2. Put the source files only into the directory created in step 1
3. Zip the directory (compress in .zip format; .rar, .7z or any other format is not acceptable)
4. Upload the .zip file on moodle.

For example, if your student id is 2105xxx, create a directory named 2105xxx. Put only your source files (.c, .cpp, .cc, .h, etc.) into 2105xxx. Compress 2105xxx into 2105xxx.zip and upload the 2105xxx.zip on MOODLE.