

CSC148 Exercise 3

(Due: May 25, 10:00 pm on Markus)

Remember, no late submissions accepted. Make sure to submit timely. Do not leave it for the last minute - internet connection may go down, server may be overloaded - there are many things that can go wrong - unfortunately they do not count as valid reasons for accommodation.

Learning Goals:

- Implement a class based on an abstractly defined set of methods.

Task 1: Stacks and Queues

The point of this exercise is to get you familiar with the Stack data type: what it represents, and how to use one in a program. You will act as clients of the `Stack`, and so will not care about the implementation details at all, but rather look at the method docstrings to understand how to use them.

Your first task: read Sections 25.2 and 26.2 from [here](#), and understand the four methods that you can use in Stacks. you may find it helpful to read Section 25.1 and 26.1 as well, but this is something we'll talk in greater detail about next week.

Next, complete all functions according to the specifications in the docstring.

Note: to test your code, you should use the provided stack and queue module `adts.py`. We've deliberately run the source code through a Python obfuscator to discourage you from trying to understand the implementation of the Stack and Queue classes. Doing so defeats the purpose of the exercise, which is getting you to use a class based on its public interface, without knowing how it's implemented.