

DATA STRUCTURES

HOMEWORK #1

Due Date 03-10-2022 (1:00 pm)

Use the Stack class provided to you on the DYS system. DO NOT modify the Stack class. You are going to write a StackOperations class which has methods to accomplish the following tasks using the Stack class that we coded in the classroom.

1-Write a method or methods to remove the smallest element from the stack. You should preserve the stack values. For example if you remove minimum element from the following stack, the resulting stack should be like the one on the right.

5

7 5

2 7

8 8

2- Write a method that takes two unsorted stacks as an argument, merges them into a sorted stack and returns this new stack.

Upload your codes to DYS for this homework.

You are required to do your homeworks by yourself. Cheating is strictly prohibited. You will get -100 if you get caught.