North South University

Department of Electrical & Computer Engineering
CSE 225L.4 (Data Structure and Algorithm Lab)
Mid Term Exam- Summer 2023
Total: 25 points **Time:** 1 hour 10 minutes

You are given **.h and .cpp** file of StackType Array in this CANVAS Assignment. Generate the driver file (main.cpp) where you perform the following tasks. **Note that you cannot make any change to the header file or the source file.**

N.B: You cannot change your main stack values. After every execution, main stack values should remain as inputs are given.

Operation to Be Tested and Description of Action	Input Values	Expected Output
Create a stack of integers.		
Push four items.	34 75 42 23	
Print the values in the stack (in the order the values are given as input).		34 75 42 23
Write a class **Employee** that represents employee records of a company. It must have variables to store the employee's ID, employee's name and employee's Salary. It also must have a function to **Print** all the values.		
You need to overload **!=** operator (It should be overloaded in such a way to check whether employee ID's are unique or not).		
Create a stack of objects of class **Employee**.		
Insert 5 employee records.	801234 Walter White 50000 802678 Jesse Pinkman 35000 803123 Skyler White 15000 804908 Hank Schrader 40000 805235 Saul Goodman 30000	
Print the values in the stack (in the order the values are given as input).		801234 Walter White 50000 802678 Jesse Pinkman 35000 803123 Skyler White 15000 804908 Hank Schrader 40000 805235 Saul Goodman 30000
Make a new stack of **Employee** class which will store the records of the Employee's whose salary is greater than **30000.**		
Print the final stack.		804908 Hank Schrader 40000 802678 Jesse Pinkman 35000 801234 Walter White 50000