FINAL EXAMINATION - Part D



TERM	COURSE NAME	COURSE CODE	VERSION
Summer 2020	Object-Oriented Software Development using C++	OOP345	Α

Name	
Student Number	
Section	

PROFESSORS: Hossein Pourmodheji, Mufleh Al-Shatnawi, Asam Gulaid

SPECIAL INSTRUCTIONS:

Test Component	Availability	Time Limit
Part A and B	Aug 11 th , 8 AM to Aug 12 th , 8 AM	No Time Limit
Part C	Aug 11 th , 8 AM to Aug 12 th , 8 AM	3 hours
Part D	Aug 12 th , 8 AM to Aug 13 th , 8 AM	3 hours
Part E	Aug 13 th , 8 AM to Aug 14 th , 8 AM	4 hours

 For Part C, D and E, 80% of the mark is dedicated to the coding part, and 20% is dedicated to the explanation.

SENECA'S ACADEMIC HONESTY POLICY

As a Seneca student, you must conduct yourself in an honest and trustworthy manner in all aspects of your academic career. A dishonest attempt to obtain an academic advantage is considered an offense, and will not be tolerated by the College.

APPROVED BY:

Kathy Dumanski, Chair, School of SDDS

Part D: (20%)

Design and implement a function named contains(...) that receives unmodifiable references to two STL lists containing integers. The function shall return true if there is at least one element that can be found in both lists. Otherwise, the function shall return false.

Deliverables:

- 1. Your implementation should not include any STL algorithms—use iterators to traverse the lists.
- 2. Submit the working program.
- 3. Submit screen capture of the test results.

```
#include <list>
#include <iostream>
//TODO: complete this function
     contains(
}
// program showing sample usage
int main() {
 std::list<int> 11; std::list<int> 12;
 // expected output: true
 std::cout << (contains(l1, l2) ? "true" : "false");</pre>
 std::list<int> 13;
 13.push back(5);
 13.push_back(6);
 // expected output: false
 std::cout << (contains(l1, l3) ? "true" : "false");</pre>
}
```