

CS3305 - Assignment 3 (100 Points)

Due in D2L by ~~Sun, Oct 6,~~ Thurs Oct 10, 2019 @ 11:59 pm

Please put your code (documented with comments, preconditions and post conditions), and screen shots from your output in one word document. You may submit it as a word document or PDF file, named with the following format.

3305-Assignment-2-Yournetid.docx (or .pdf)

Word file must have a cover page with the following information (10 pts):

- Your name;
- Course name, number and section;
- Assignment number; and
- My name.

Submit your source code files individually (10pts). DO NOT ZIP

Submit assignment into D2L by the Due Date shown above.

The goal of Assignment 3 is to reinforce implementation of dynamic arrays in C++. Specifically, the assignment is to **implement a set using a dynamic array**. You will use your **header and test files from your lab** for the same subject. You need to **implement functions** that execute the following set operations:

- **union**
- **intersection**
- **insertion - if the element is already in the set, then nothing happens**
- **deletion - if the element is not in the set, then nothing happens**
- **query to check whether an element is in a set**
- **query to find the number of number of elements in a set**
- **display the members of the set**
- **a destructor**
- **a copy constructor**
- **an overloaded assignment operator**

In addition to your programming solution, the assignment **must include preconditions and postconditions for the functions**.