**Course: ENSF 614** - Fall 2023  
**Lab #:** Lab 2  
**Instructor:** Mahmood Moussavi  
**Student Names:** Redge Santillan, Christian Valdez  
**Submission Date:** September 27, 2023

**Exercise E**

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\* lab2exe\_E.cpp

\* Implementation file for complex number module

\* Assignment: Lab 2 Exercise E

\* Section: B01

\* Completed by: Christian Valdez and Redge Santillan

\* Submission date: Sep 27, 2023

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#include "lab2exe\_E.h"

cplx cplx\_add(cplx z1, cplx z2) {

cplx result;

result.real = z1.real + z2.real;

result.imag = z1.imag + z2.imag;

return result;

}

void cplx\_subtract(cplx z1, cplx z2, cplx\* difference) {

difference->real = z1.real - z2.real;

difference->imag = z1.imag - z2.imag;

}

void cplx\_multiply(const cplx\* z1, const cplx\* z2, cplx\* difference) {

difference->real = (z1->real \* z2->real) - (z1->imag \* z2->imag);

difference->imag = (z1->real \* z2->imag) + (z1->imag \* z2->real);

}