Files to submit: complex mult.c

Time it took Matthew to complete: 5 minutes

- All programs must compile without warnings when using the -Wall and -Werror options
- Submit only the files requested
 - Do **NOT** submit folders or compressed files such as .zip, .rar, .tar, .targz, etc
- Your program must match the output exactly to receive credit.
 - Make sure that all prompts and output match mine exactly.
 - Easiest way to do this is to copy and paste them
- All input will be valid unless stated otherwise
- The examples provided in the prompts do not represent all possible input you can receive.
- All inputs in the examples in the prompt are underlined
 - You don't have to make anything underlined it is just there to help you differentiate between what you are supposed to print and what is being given to your program
- If you have questions please post them on Piazza

In this program you will multiply two complex numbers together. A complex number has the form ai + b

where

a is the imaginary part b is the earliest gnment Project Exam Help i represents $\sqrt{-1}$

Write a program that accepts two complex numbers, multiplies them together and then displays the result.

Notes: There may be any number of spaces between the numbers, i, and the plus sign and your program should be able to handle that dd we chat powcoder

Hint: Don't forget that $i*i=\sqrt{-1}*\sqrt{-1}=-1$.

Examples:

- 1. Enter the first complex number in the form ai + b: $\frac{5i + 3}{2i + 4}$ Enter the second complex number in the form ai + b: $\frac{2i + 4}{2i + 4}$ (5i + 3) * (2i + 4) = 26i + 2
- 2. Enter the first complex number in the form ai + b: $\underline{10}$ i + 3 Enter the second complex number in the form ai + b: $\underline{6i+1}$ (10i + 3) * (6i + 1) = 28i + -57
- 3. Enter the first complex number in the form ai + b: $\frac{1i+2}{2}$ Enter the second complex number in the form ai + b: $\frac{3}{3}$ i + $\frac{4}{3}$ (1i + 2) * (3i + 4) = 10i + 5