

## C code report-assgn2

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When doing the homework, I have met problem.

In the first time, I wrote code to print the equation cleanly and beautifully. However, I copied the code three for the real, multiple real, and complex roots. Then, I found that the length of my program is 110 lines. To shorten my code, I organized my three-copied code into only one. Finally, I make the code finish in just 70 lines.

program steps:

First, I print some precondition and scan "a,b,c". Also, use "if" to verify if the equation is linear equation of two variables. Then, I determine whether the answer is real, multiple real, or complex for printing different word. Such as real roots, multiple real root, and complex roots. Next, I use "if-else if" to print the equation cleanly and beautifully. Finally, I separate them by verifying if discriminant is over zero, equal zero, or less than zero and use the function called "Sqrt()" in "math.h" to calculate the answers of the equation, respectively.