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W2: Quadratic formula

Write a program that solves a <u>quadratic equation</u> \mathbf{z} using the <u>quadratic formula</u> \mathbf{z} . The general quadratic equation is: $ax^2 + bx + c = 0$

The program should ask the user to enter values for a, b, and c. Next, it should calculate and print the solution(s) to the standard output. You can assume $a \neq 0$.

Your program should ask for values like that:

Please enter the values of a, b, and c:

Depending on the discriminant, one of the following three results shall be printed:

There are 2 solutions.

The solutions are: <first_solution> and <second_solution>

There is 1 solution.

The solution is: <solution>

There is no solution.

Your program must use user-defined functions, one for computing the discriminant, and one for computing the quadratic formula itself.

Solve alone or in pairs

You can choose to solve a warm-up assignment all by yourself. But you may also choose to do it together with another student from the same group. If so, one student must create a group (in CodeGrade) and the other student must join it. Both students must be present and able to explain their shared program when getting approval by the TA.

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