# Lab 4 Calculate the hypotenuse A↓

New Attempt

- Due Wednesday by 11:59pm
- Points 10
- Submitting a file upload
- File Types zip
- Available Sep 23 at 12am - Oct 9 at 11:59pm

You will write a program that calculates the hypotenuse of a right triangle using Pythagorean's theorem.

1. Prompt the user to enter two integers side A and side B of the right triangle.
2. If A or B is less than or equal to zero the program should prompt the user of the error and end the program.
3. Use the function "intSqrt" to do the square root.

**You need to download the code template for this homework to work.** Do not change the intSqrt.c or the tri.s file names. All code should be written in the tri.s.

**How to compile:**

Unlike your previous examples the code will not compile just using gcc like it did with other examples. To compile you will run this command

*make build*

it will compile the intSqrt.c into an object and then compile the tri.s and intSqrt.o together to make the program work. Then to run the program use the command

*./tri*

**Submission instructions:**

Submit the final version as a zip file with the following files: tri.s

**Important Notes:**

- intSqrt wants a single parameter in r0, and will return the square root into r0
- Here is the equation to find the hypotenuse $c = \sqrt{a^2 + b^2}$

**Downloads:**

Download the template here: