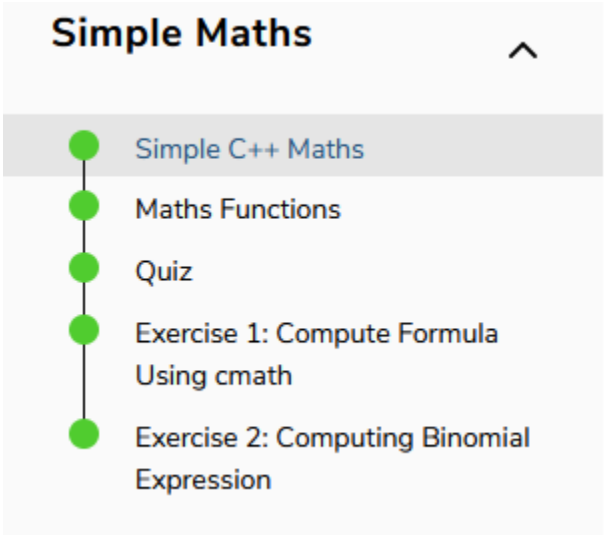
Your Name Here
CSC 2134 Z Programming I with C++
Lab 03

Simple Maths Sidebar



Simple Maths Exercise 1 Code

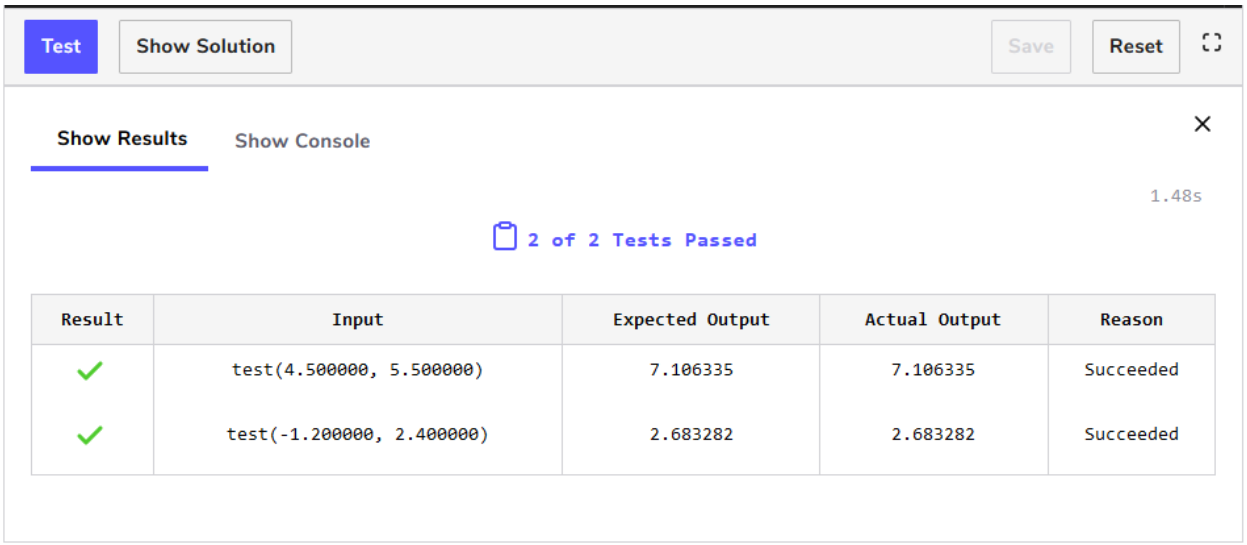
```cpp
#include <iostream>
#include <cmath>
using namespace std;

float test(float a, float b) {

  float computeSqrt;
  // code for squaring the two variables/floats
  computeSqrt = pow(a,2) + pow(b,2);
  // code for using the sqrt on the now defined computeSqrt
  computeSqrt = sqrt(computeSqrt);
  // wasnt sure for a bit if I was supposed to define the values of the variables
  // kind of interested as to where it's pulling the values from
  // but the answer is probably a pretty simple, from somewhere outside this window of code
  cout << "Answer is: " << computeSqrt<<endl;
  return computeSqrt;
}
```

Test | Show Solution | Save | Reset

Simple Maths Exercise 1 Test Results



Result	Input	Expected Output	Actual Output	Reason
✓	test(4.500000, 5.500000)	7.106335	7.106335	Succeeded
✓	test(-1.200000, 2.400000)	2.683282	2.683282	Succeeded

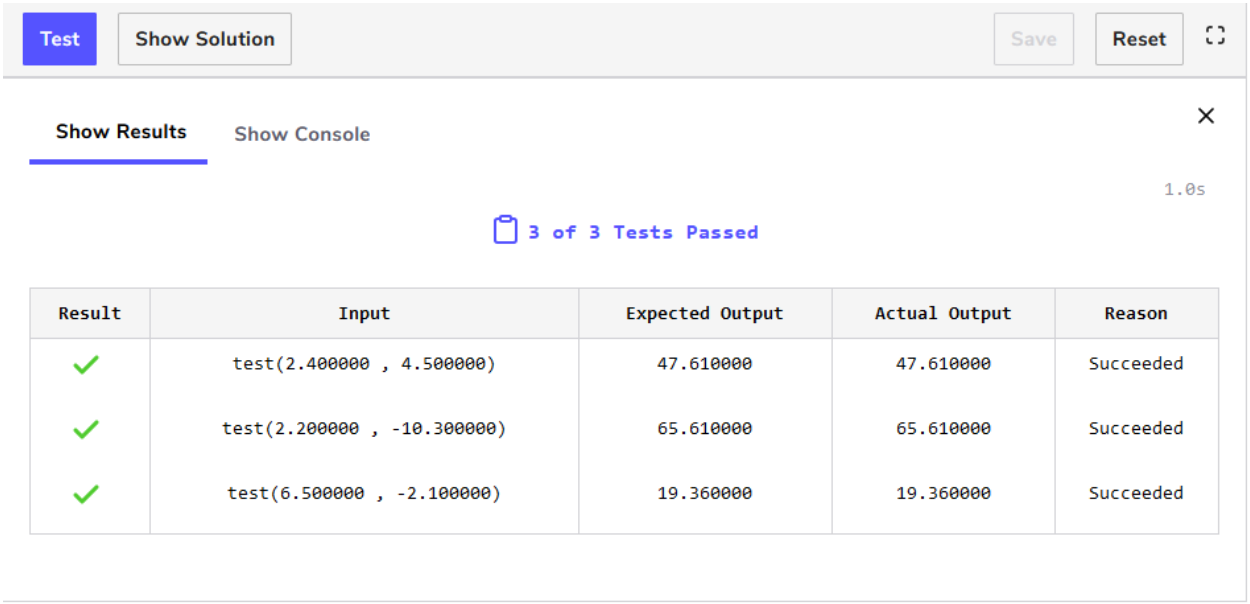
Simple Maths Exercise 2 Code

```cpp
#include <iostream>
#include <cmath>
using namespace std;

double test(double a, double b) {
  double computeSquares;
  double computeProduct;
  double answer;
  //what I hope is the right way to square this
  //apparently (a+b)^2 is not going to fly for  C++
  computeSquares = pow(a,2) + pow(b,2);
  //computing the product of a*b
  computeProduct = 2*a*b;
  //defining the answer
  answer = computeProduct + computeSquares;
  cout << "Answer is: " << answer << endl;
  return answer;
}
```

Test Show Solution Save Reset

Simple Maths Exercise 2 Test Results



Result	Input	Expected Output	Actual Output	Reason
✓	test(2.400000 , 4.500000)	47.610000	47.610000	Succeeded
✓	test(2.200000 , -10.300000)	65.610000	65.610000	Succeeded
✓	test(6.500000 , -2.100000)	19.360000	19.360000	Succeeded