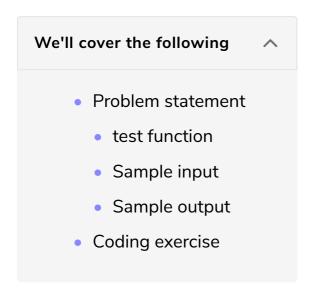
## Challenge 3: Design a Calculator

Let's test our problem-solving skills through a difficult challenge.



## Problem statement #

The aim of this challenge is to design a calculator that takes operands in its input and performs one of the following operations on them:

- Addition
- Subtraction
- Multiplication
- Division

### test function #

You have to write a function test that takes two values of type double and one value of type char in its input parameters.

double test (double number1, char operate, double number2);

- number1 and number2 take the values of the operands.
- operate can take +, -, \*, and / in its value.
  - If the value of operate is +, then it should call the function that adds the values of number1 and number2 and returns the result in the output.

- If the value of operate is —, then it should call the function that subtracts
   the value of number2 from number1 and returns the result in the output.
- If the value of operate is \*, then it should call the function that multiplies
   the value of number1 by number2 and returns the result in the output.
- If the value of operate is /, then it should call the function that divides the value of number1 by number2 and returns the result in the output.
- For any other value of operate, it should return -1 in the output.

### Sample input #

```
test(7.9, +, 6.2)
test(7.9, -, 6.2)
test(7.9, *, 6.2)
test(7.9, /, 6.2)
test(7.9, =, 6.2)
```

#### Sample output #

```
14.100000

1.700000

48.980000

1.274194

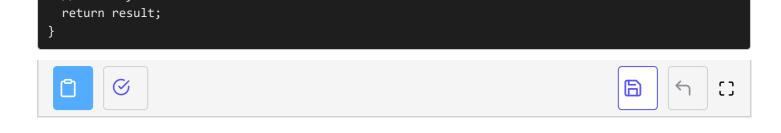
-1.000000
```

# Coding exercise #

Before diving directly into the solution, first, try to solve it yourself, and then check if your code passes all the test cases. If you get stuck, you can always see the given solution.

```
Your function name should be test.
```

#### Good Luck! 👍



🥭 Great! You have just designed the calculator.

In case you are stuck, let's go over the solution review in the next lesson.