Challenge: Max with Nested Functions

Test yourself and implement what you have learned so far in this challenge.

We'll cover the following

Problem Statement

In this challenge, you need to create a nested function `max` which will be defined in the body of the function `mainMax`. `mainMax` returns the maximum of three numbers using the `max` function.

You will need to write the `max` function from scratch. Take some time and try to figure out how many parameters it should have and what the return value will be. You will also need to figure out what `mainMax` will return. Remember how in the previous lesson `sqrt` was returning the return value of `sqrtIter`.

Input

The inputs of the `mainMax` function are three numbers `a`, `b`, and `c` of type `Int`.

Output

The output will be the maximum of `a`, `b`, and `c`.

Sample Input

```
(1,9,5)
```

Sample Output

```
9
```

Test Yourself

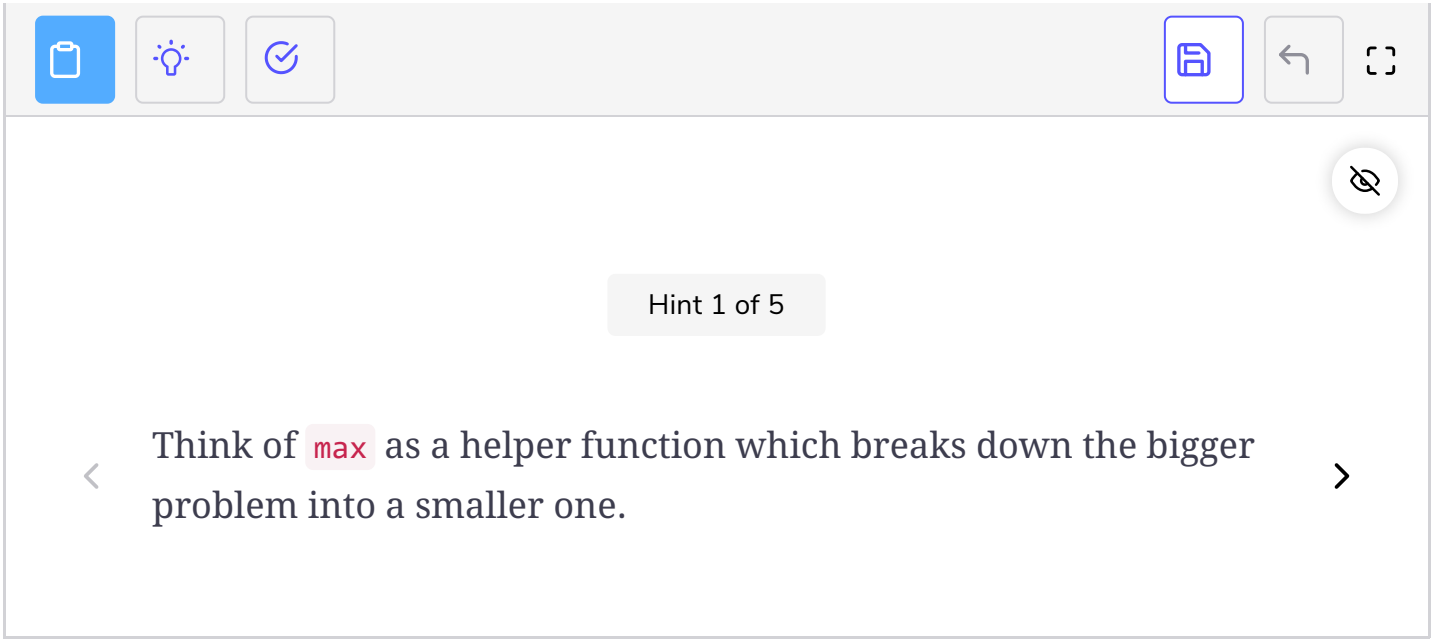
Write your code in the given area. Try the exercise by yourself first, but if you get stuck, the solution has been provided. Good luck!

This code requires the following environment variables to execute:

LANG	C.UTF-8

```
def mainMax(a: Int, b: Int, c: Int): Int = {
  // Write your code here

  return -1 //Remove this line after writing your code
}
```



Let’s go over the solution review in the next lesson.