BridgeLabz

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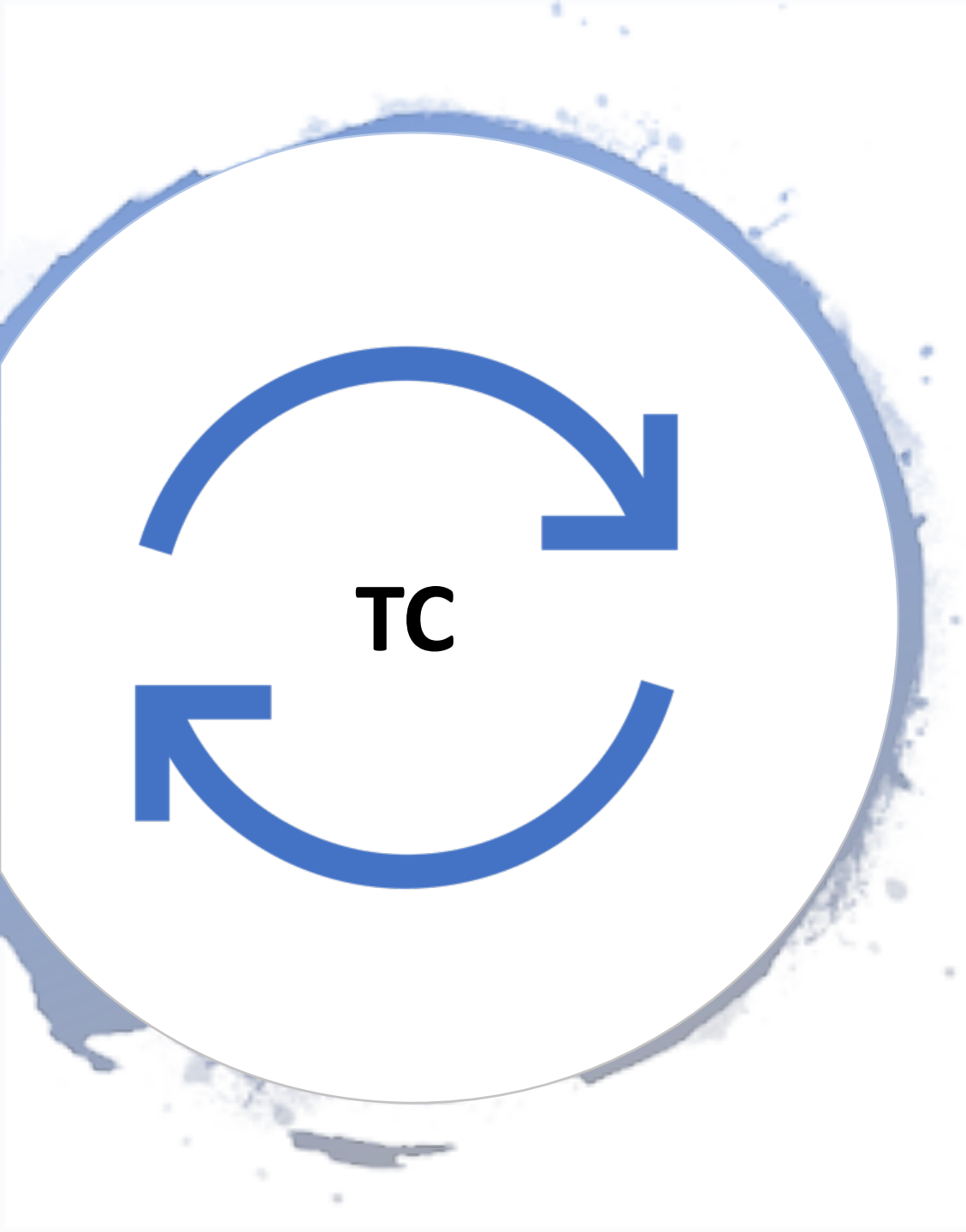
Find Maximum Problem using Generics

Test Maximum

Test Maximum of 3 Variables



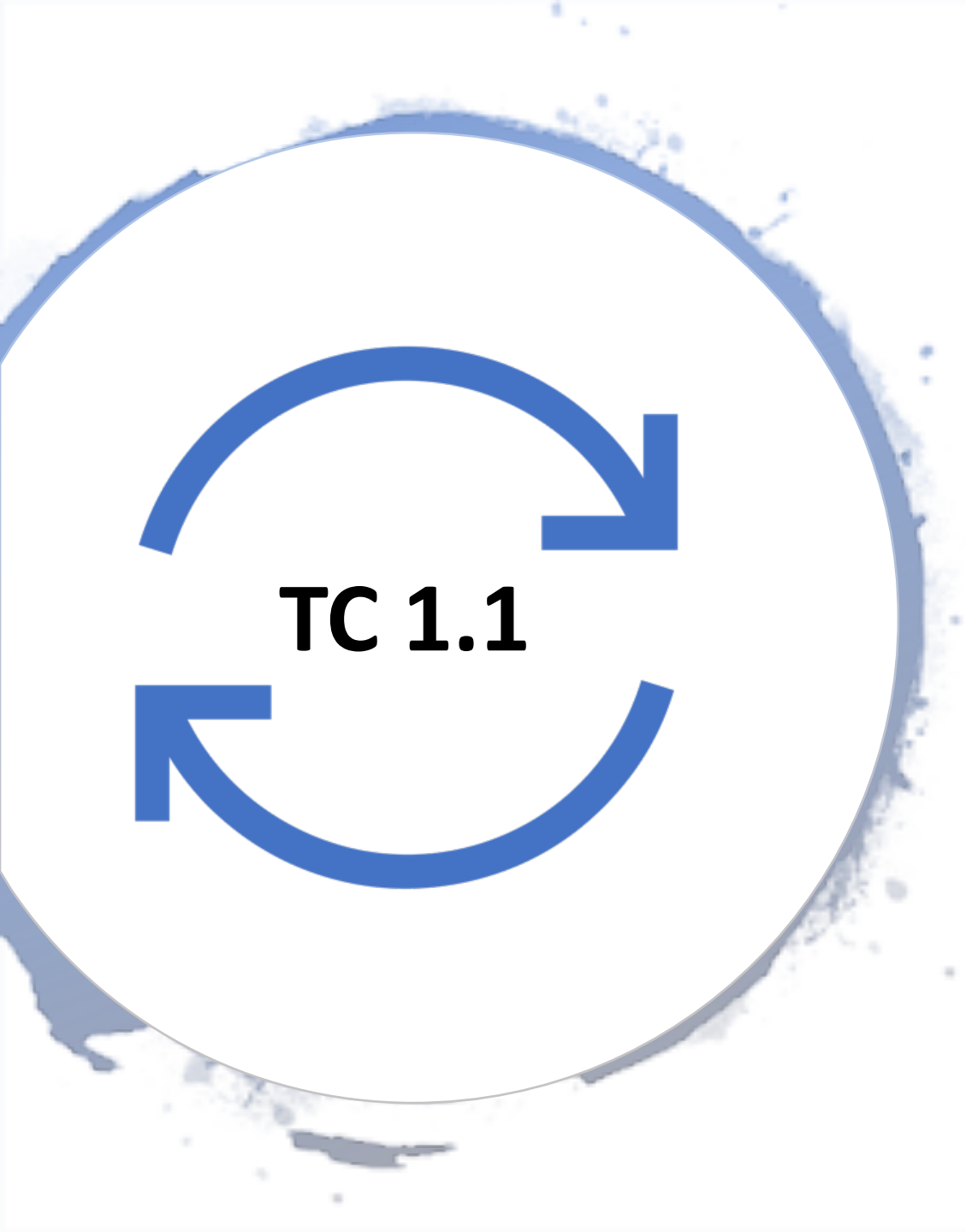
In the following Use Cases Make sure Test Cases

Test your code is working or not with Test Cases

UC 1

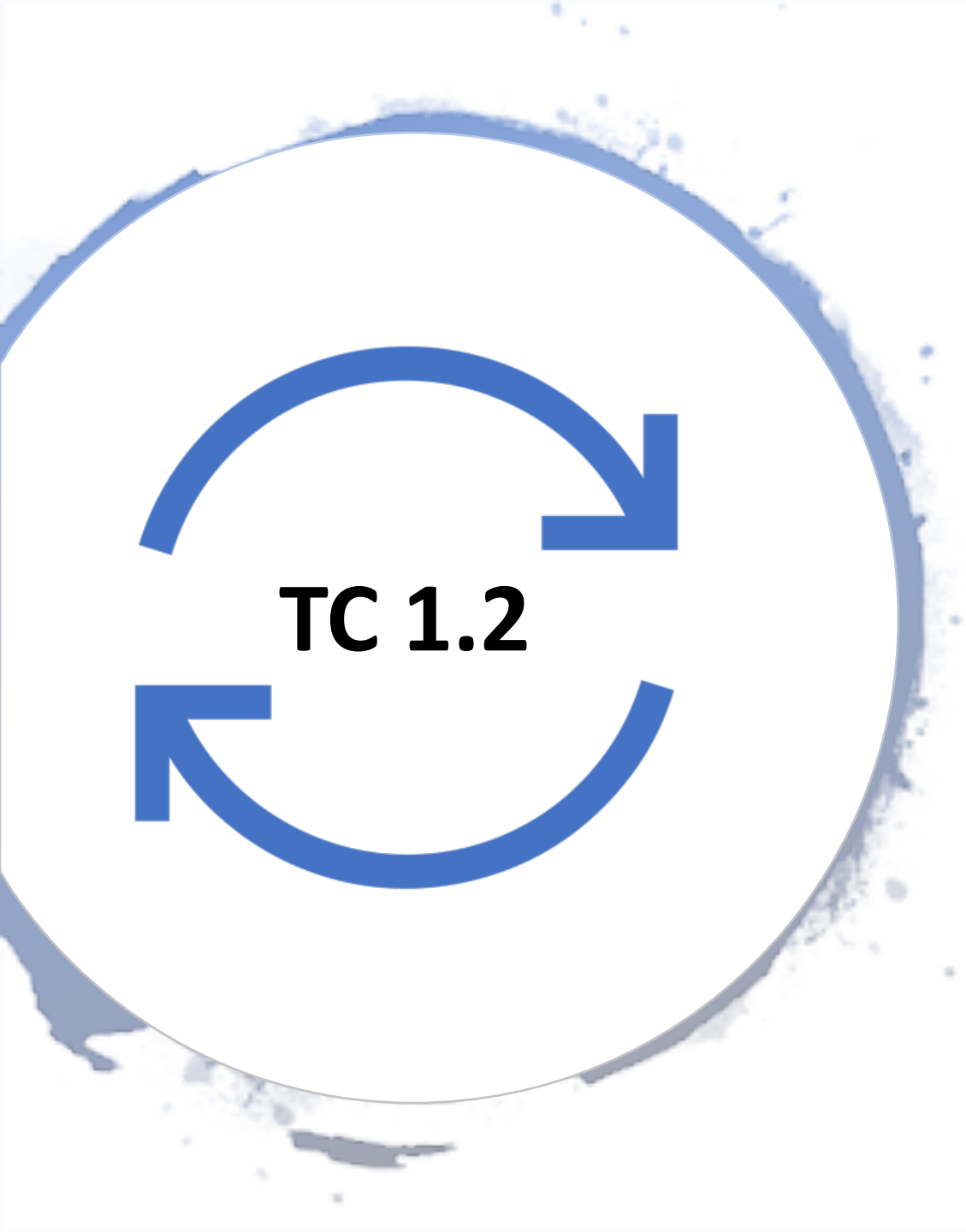
Given 3 Integers find the maximum

- Ensure to test code with the Test Case.
- To ensure your Code works you need 3 test cases with Max Number at 1st, 2nd and 3rd
- Use Integer Object and compareTo method to test the maximum number



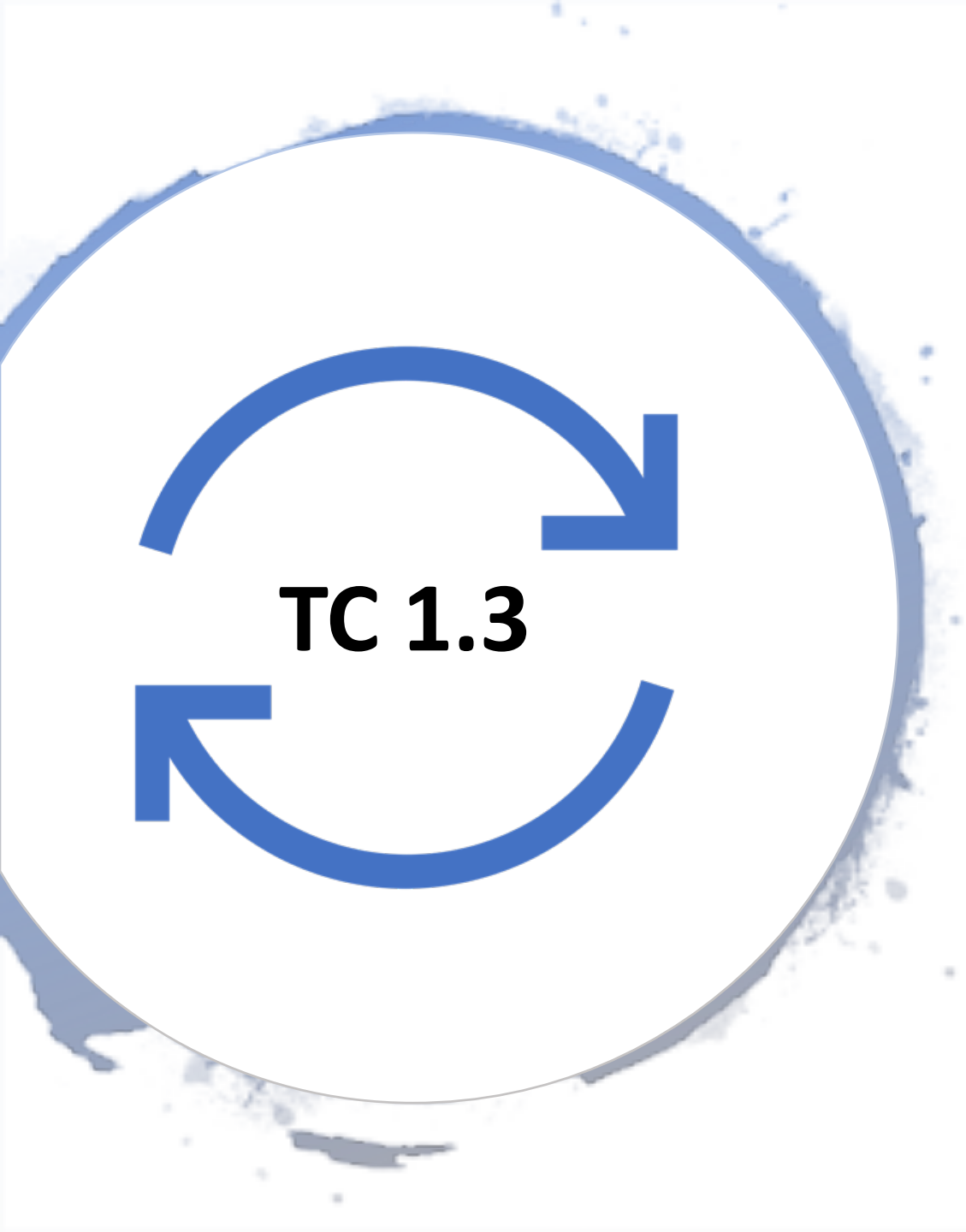
Given Max Number at 1st Position return the Same Number

Ensure the test data has Max Number in the First position



Given Max Number at 2nd Position return the Same Number

Ensure the test data has Max Number in the Second position



Given Max Number at 3rd Position return the Same Number

Ensure the test data has Max Number in the Third position

UC 2

Given 3 Floats find the maximum

- Ensure to test code with the Test Case and repeat with the similar 3 Test cases in UC 1

UC 3

Given 3 Strings find the maximum

- Ensure to test code with the Test Case and repeat with the similar 3 Test cases in UC 1
- E.g. Apple Peach Banana

Refactor 1

Refactor all the 3 to One Generic Method and find the maximum

- Ensure the Generic Type extends Comparable
- Make the test case work

Refactor 2

Refactor to create Generic Class to take in 3 variables of Generic Type

- Ensure the Generic Type extends Comparable
- Write parameter constructor
- Write testMaximum method to internally call the static testMaximum method passing the 3 instance variables
- Define new test case to use the Generic Class

UC 4

Extend the max method to take more then three parameters

- Use Options and use Sorting

UC 5

Extend the max method to also print the max to std out using Generic Method

- Write printMax Generic Method which is internally called from testMaximum

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Thank You