



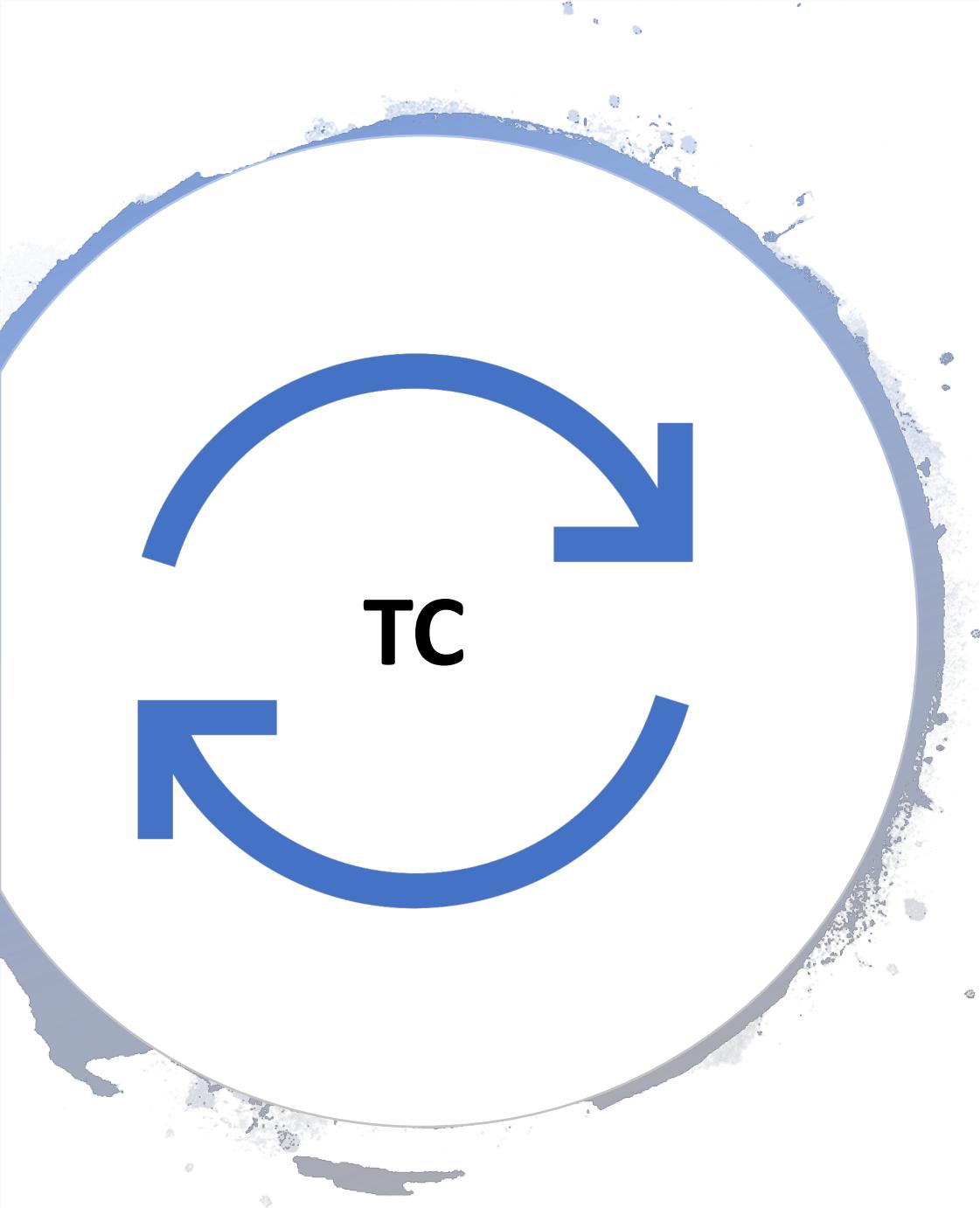
BridgeLabz

Employability Delivered

Find Maximum
Problem using
Generics

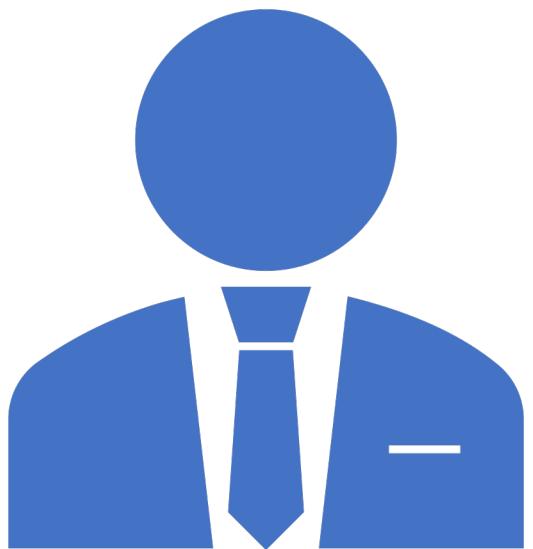
Test Maximum

Test Maximum of 3 Variables



In the following Use
Cases Make sure Test
Cases

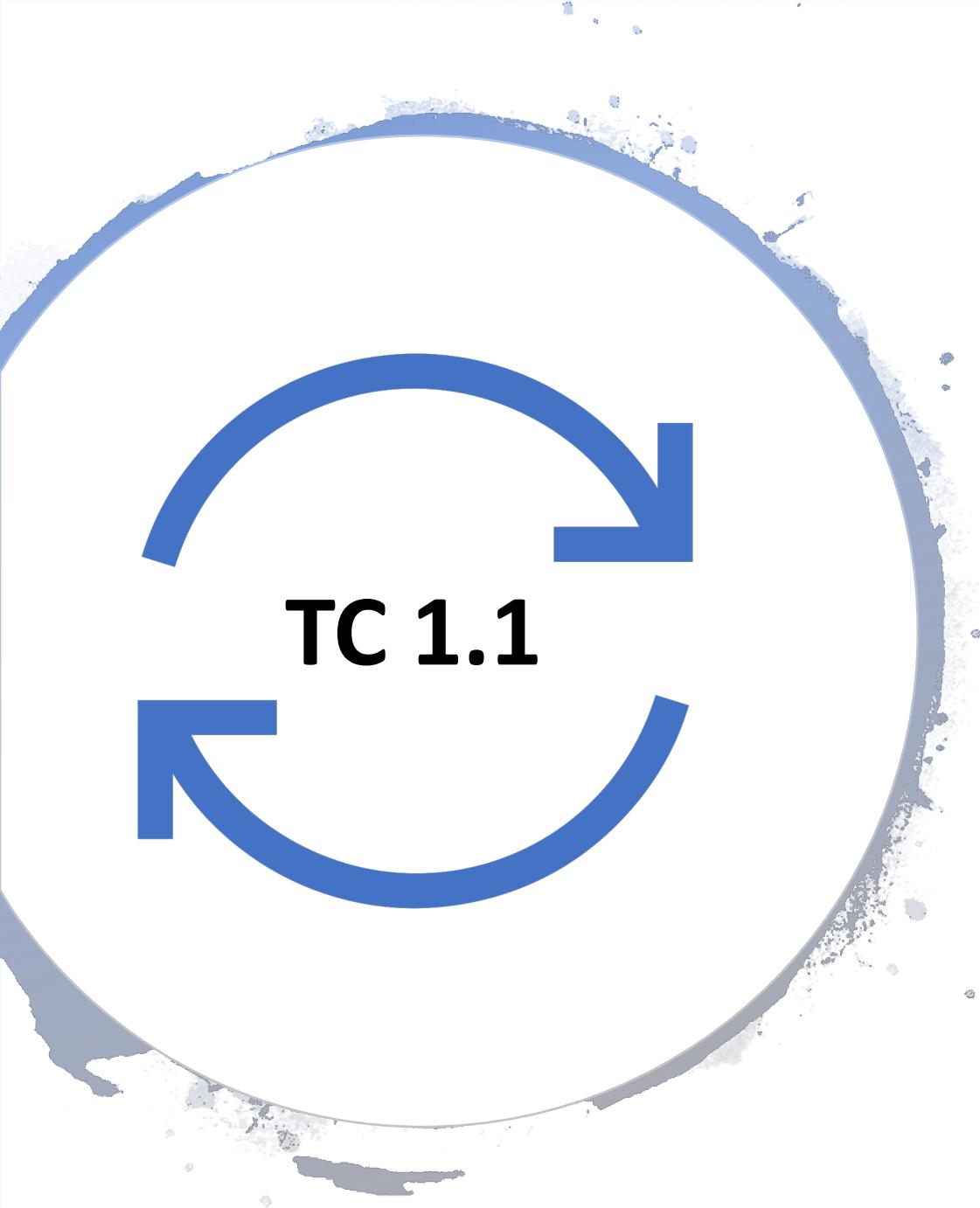
Test your code is working or not with
Test Cases



UC 1

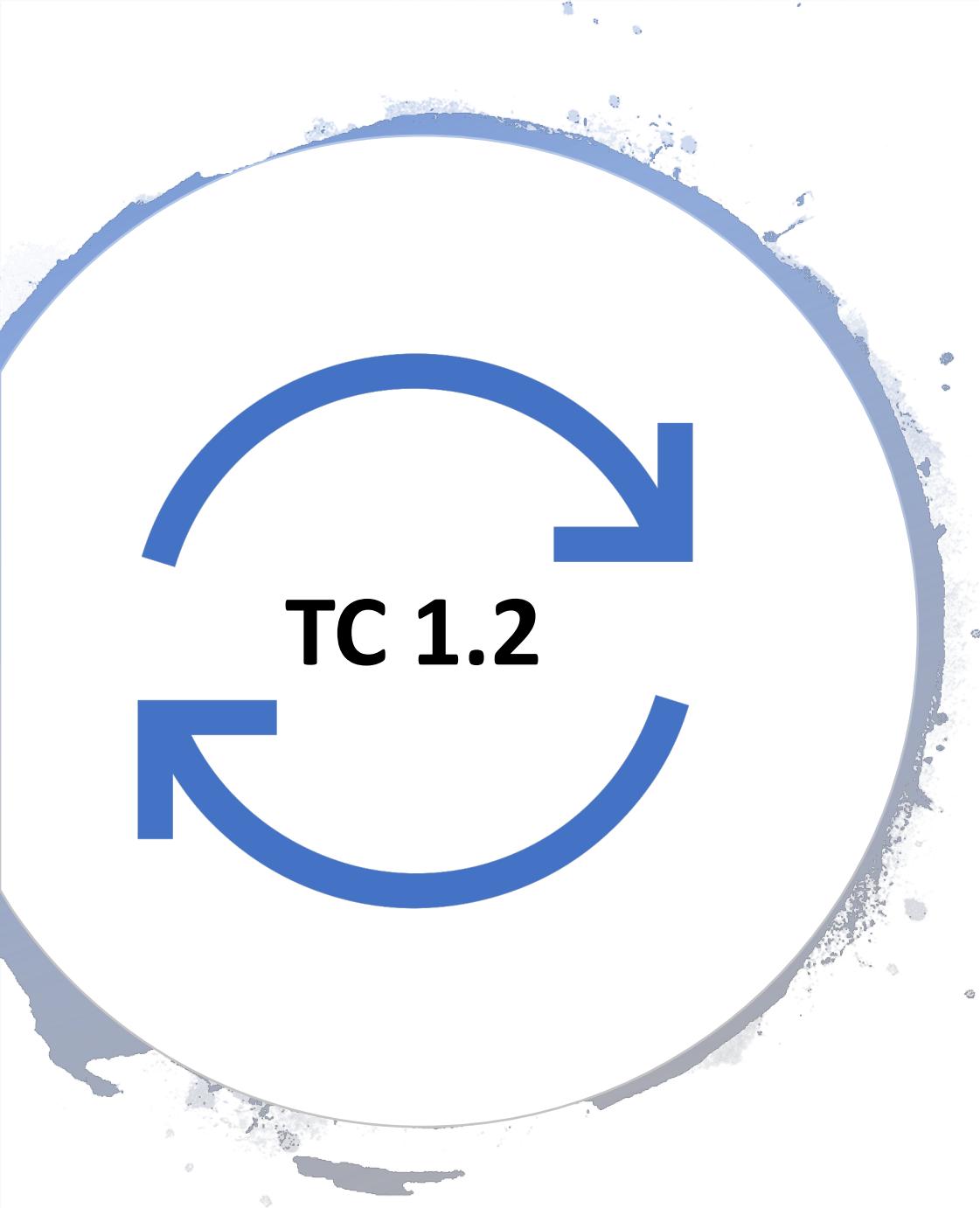
Given 3 Integers find the maximum

- 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



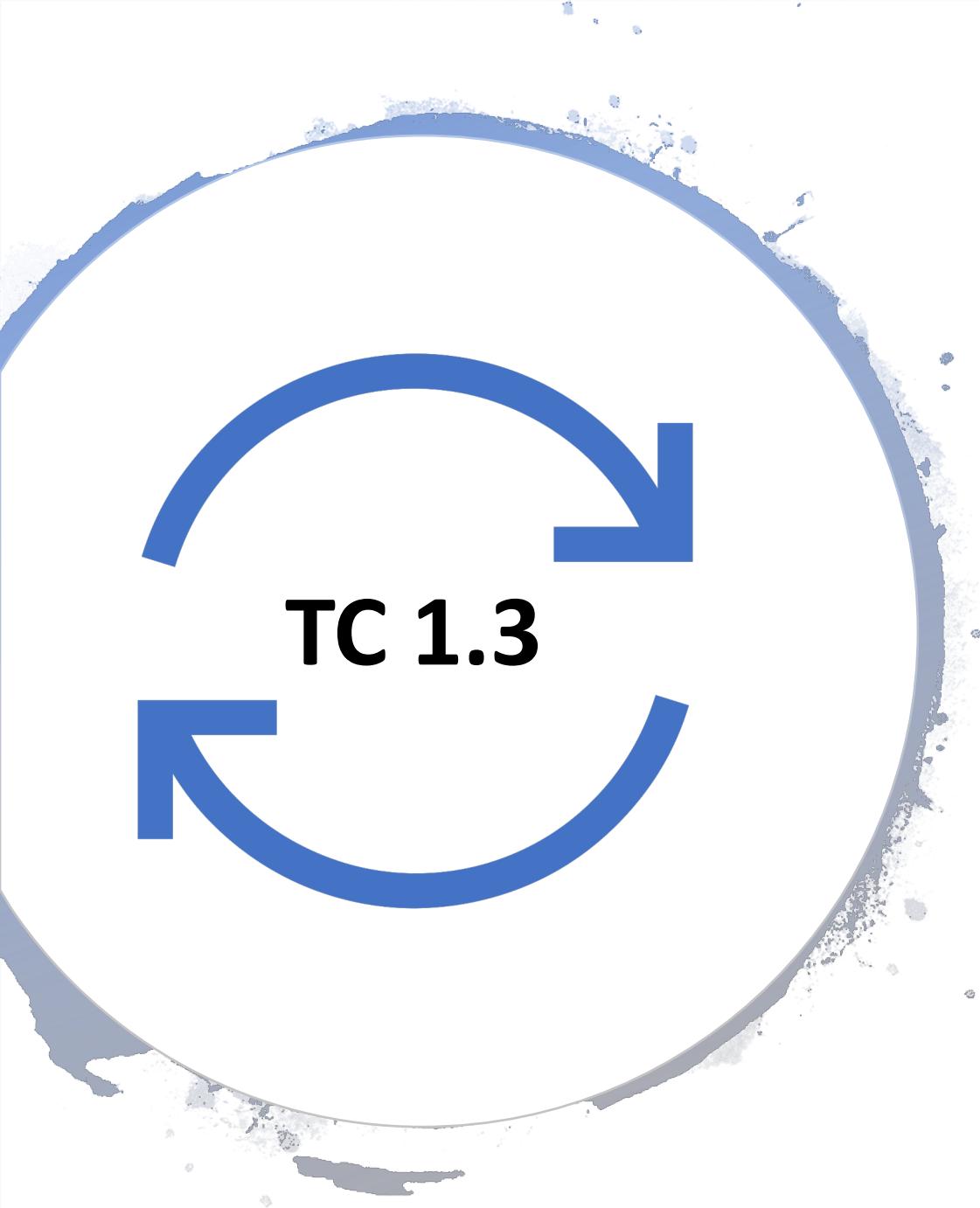
Given Max Number at
1st Position return the
Same Number

Ensure the test data has Max Number in
the First position



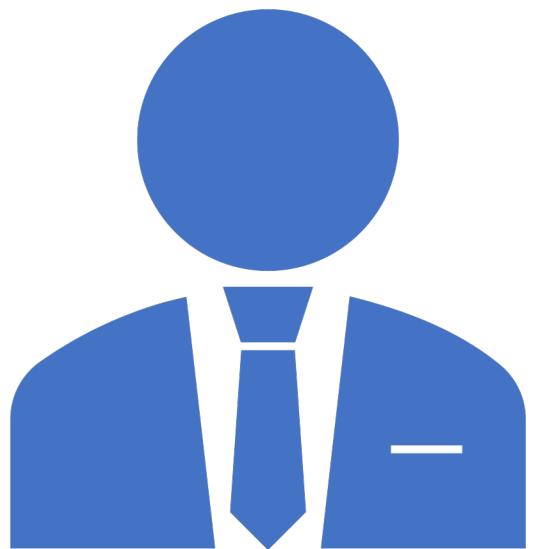
Given Max Number
at 2nd Position return
the Same Number

Ensure the test data has Max Number
in the Second position



Given Max Number
at 3rd Position return
the Same Number

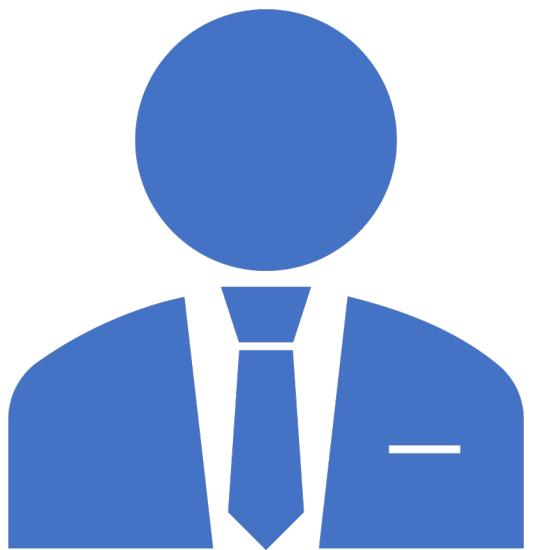
Ensure the test data has Max Number
in the Third position



UC 2

**Given 3 Floats
find the
maximum**

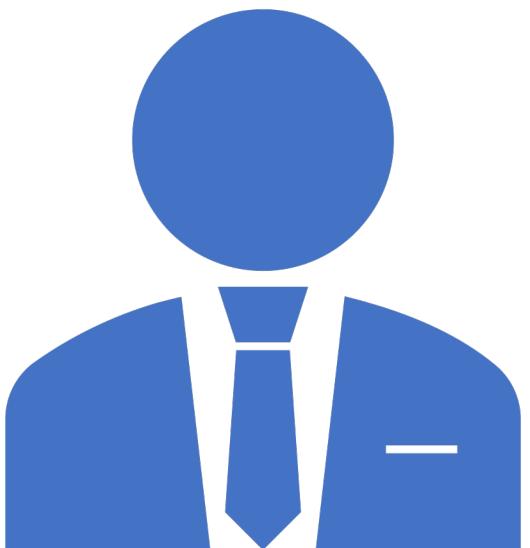
- Ensure to test code with the Test Case and repeat with the similar 3 Test cases in UC 1



UC 3

**Given 3 Strings find
the maximum**

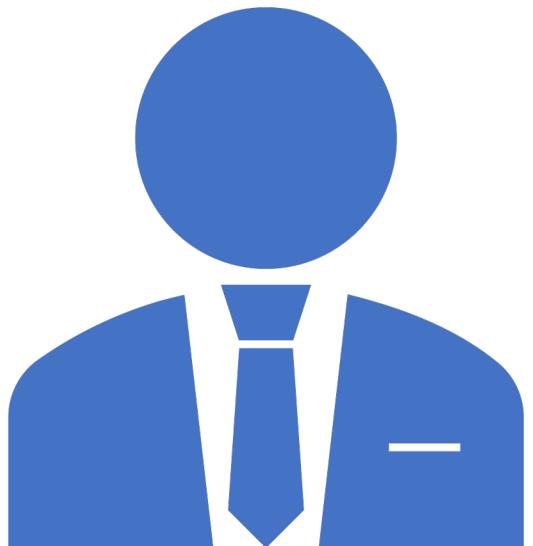
- Ensure to test code with the Test Case and repeat with the similar 3 Test cases in UC 1
- E.g. Apple Peach Banana



Refactor 1

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

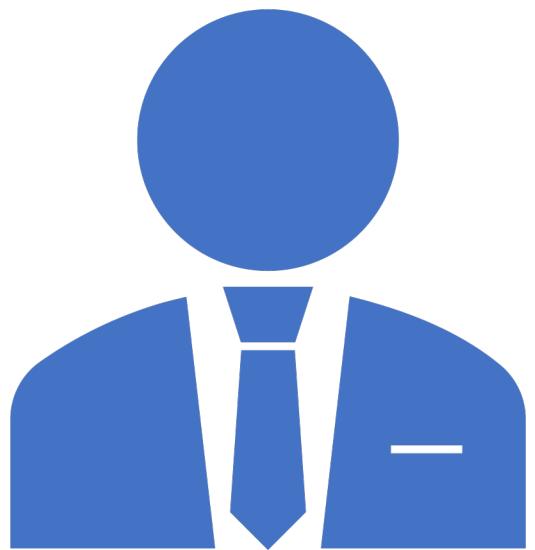
- Ensure the Generic Type extends Comparable
- Make the test case work



Refactor 2

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

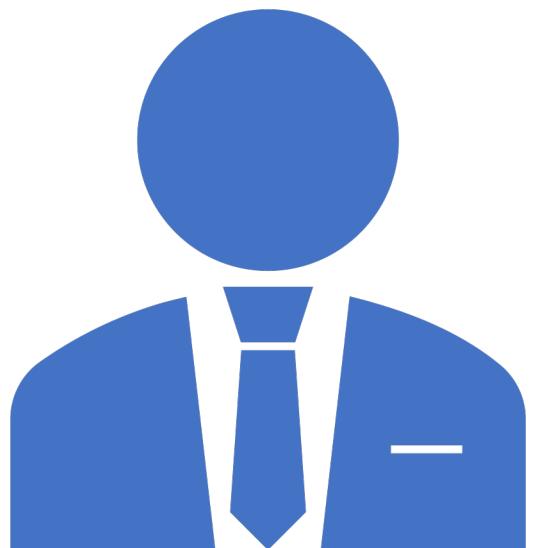
- Ensure the Generic Type extends Comparable
- Write parameter constructor
- Write testMaximum method to internally call the static testMaximum method passing the 3 instance variables
- Define new test case to use the Generic Class



UC 4

Extend the max
method to take
more then three
parameters

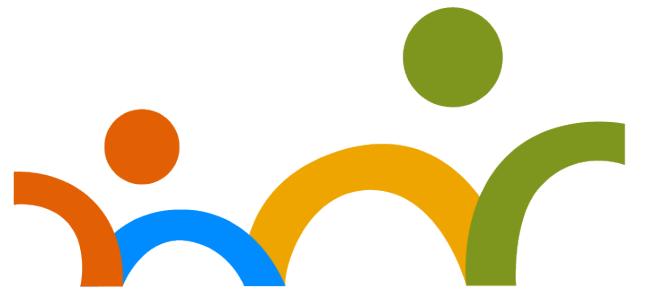
- Use Options and use Sorting



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



BridgeLabz

Employability Delivered

Thank
You