King Saud University
College of Computer and Information Sciences
Department of Computer Science
CSC113 – Computer Programming II – Exception Handling Tutorial – Spring 2018

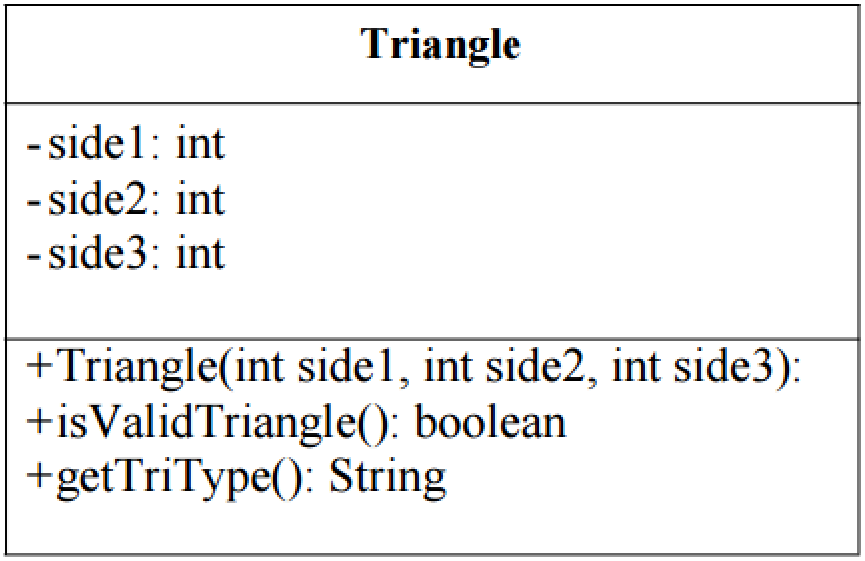
Tutorial: Exception Handling

Exercise 1: Write a method called ***division*** that takes as input two integers and returns the result of their division. This method should throw ***ArithmeticException*** if a division by zero occurs.

Exercise 2: Write a method called ***interval*** that takes as input two integers ***x*** & ***y*** and prints the interval between them [***x,y***]. ***x*** should be less than ***y***, otherwise throw an ***IllegalArgumentException***.

Exercise 3: Write a main method to test the ***division & interval*** methods from the previous exercises. This main method should handle the exceptions that those methods might throw using try-catch statements.

Exercise 4:



Triangle

-side1: int
-side2: int
-side3: int

+Triangle(int side1, int side2, int side3):
+isValidTriangle(): boolean
+getTriType(): String

Triangle

Attributes:

- *side1, side2, side3* : different sides for the triangle.

Methods:

- *Triangle(int side1, int side2, int side3):* You must check the sides and throw *(IllegalArgumentException)* with a message when any of the sides given is 0 or less.

- *isValidTriangle*(): decides whether the sides given form a valid triangle or not based on the theorem that states that " the sum of two side lengths of a triangle is always greater than the third side".

- *getTriType*(): You must check the different sides and throw Exception with a message if the sides don't form a valid triangle, otherwise return the type of the triangle as follows:

  - Equilateral Triangle when you have three equal sides
  - Isosceles Triangle when you have two equal sides
  - Scalene Triangle when you have no equal sides