Contents

Exceptions1Questions
Exceptions
Solutions for those exercises. ¹
Questions
1. In computing, what is an exception?
 A compilation error. When a program user requires a special accommodation. When a behaviour not supposed to happen occurs during execution. A keyword.
2. When a program meets an unexpected behaviour, we say that it
 raises an exception. throws an exception.All of the above.
3. An exception can occur when
 a user enters for example the string "Test" when asked for a numerical value. a division by 0 occurs. the program tries to access an array outside of its index range. All of the above.
4. A try-catch block
 executes all the code inside its try block, then all its code inside its catch block. executes all the code inside its try block, then all its code inside its catch block if an exception was raised at any point. executes only if an exception was raised in the program before. executes the code inside its try block, and switches to its catch block if an exception was thrown.

¹ https:/princomp.github.io/solutions/misc/exceptions

- ... executes its catch block first, and then its try block if an exception was raised.
- 5. A try-catch-finally block...
 - ☐ ... can have multiple **catch** block.
 - ... can omit the **finally** block.... can omit the **catch** block.
 - \square All of the above.

Warm-up Exercise

1. Consider the following code: using System; class Program static void Main() try Console.WriteLine("Enter a number"); int uInput = int.Parse(Console.ReadLine()); int[] t = { 10 }; int div = 0 / (uInput -1); int tAcces = t[uInput]; } catch (IndexOutOfRangeException) Console.WriteLine("IndexOutOfRangeException"); catch (DivideByZeroException) Console.WriteLine("DivideByZeroException"); catch (FormatException) Console.WriteLine("FormatException"); catch (ArgumentNullException) Console.WriteLine("ArgumentNullException");

```
}
}
```

(Download this code)²

- Determine which input would the user needs to enter to get "IndexOutOfRangeException", "DivideByZeroException", "FormatException" and "ArgumentNullException" displayed.
- Is there something the user could enter that would *not* raise any exception?

 $^{^2} https:/princomp.github.io/code/projects/TriggeringExceptions.zip \\$