

TDT4165 Programming Languages

Scala Project Delivery 1

Random Group 4

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Scala Introduction

All the code for this task can be found in `task1/Main.scala`.

- (d) The function `fibonacci(n: Int)` gives the n 'th fibonacci number, with 0 being the zeroth, and 1 being the first. The rest of the sequence is implemented using the recursive definition of fibonacci.

The function return type is `BigInt` because the fibonacci sequence quickly exceeds $2^{31} - 1$, which is the maximum value representable as an `Int`. A `BigInt` however does not have a pre-determined range of possible integer values. It will allocate enough space to fit the value as it grows.

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Concurrency in Scala