```
multiscale::NumberIterator
   # isInitialised
   # upperBound
   + NumberIterator()
   + ~NumberIterator()
   + init()
   + hasNext()
   + number()
   + reset()
   - initialise()
   - hasNextInitialised()

    hasNextNotInitialised()

   resetCurrentNumber()
multiscale::Lexicographic
         NumberIterator
- upperBoundDigits
- currentNumberDigits
+ LexicographicNumberIterator()
+ ~LexicographicNumberIterator()
+ number()
- initialise()
- hasNextInitialised()
resetCurrentNumber()
- numberToDigits()
- reverseDigits()
- digitsToNumber()
- isLargerThanUpperBound()
padWithZeros()
```