TestSummary.txt: 1/1 Adithya Narayanan - anb122:j1:24

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1: Final Tests: Summary for anb122 of j1
 2: PPT 24
 3: -----
 4:
 5: Public Tests:
 6: student-tests/tests/maxOf2:
                                             3 / 3
      student-tests/tests/maxOf3:
                                             3 / 3
      student-tests/tests/isADigit:
                                             2 / 2
                                                                                  Tosts: 4
Consectness: 3/3
quality: 2/3
       student-tests/tests/isAlpha:
                                             2 / 2
10:
       student-tests/tests/digitToInt:
                                             2 / 2
11:
       student-tests/tests/toUpper:
                                             2 / 2
       student-tests/tests/arithmeticSeq:
                                             4 / 4
       student-tests/tests/geometricSeq:
                                             4 / 4
13:
       student-tests/tests/arithmeticSeries: 4 / 4
15:
       student-tests/tests/geometricSeries: 4 / 4
16:
       original-tests/tests/maxOf2:
                                             3 / 3
17:
       original-tests/tests/maxOf3:
                                             3 / 3
18:
       original-tests/tests/isADigit:
19:
       original-tests/tests/isAlpha:
20:
       original-tests/tests/digitToInt:
                                             2 / 2
21:
       original-tests/tests/toUpper:
                                             2 / 2
22:
       original-tests/tests/arithmeticSeq:
                                             4 / 4
       original-tests/tests/geometricSeq:
                                             4 / 4
       original-tests/tests/arithmeticSeries: 4 / 4
25:
       original-tests/tests/geometricSeries: 4 / 4
27: Git Repo: qit@qitlab.doc.ic.ac.uk:lab2324_autumn/haskellsequences_anb122.qit
28: Commit ID: b0f37
```

```
Final Tests
                                    Sequences.hs: 1/1 Adithya Narayanan - anb122:j1:24
    1: module Sequences where
    3: import Data.Char (ord, chr)
    5: -- | Returns the first argument if it is larger than the second,
    6: -- the second argument otherwise
    7: maxOf2 :: Int -> Int -> Int
    8: maxOf2 x y
    9:
             x > y = x
           otherwise = y
   10:
   11:
   12: -- | Returns the largest of three Ints
   13: maxOf3 :: Int -> Int -> Int
   14: maxOf3 x y z = maxOf2 x (maxOf2 y z)
   15:
   16: -- | Returns True if the character represents a digit '0'...'9';
   17: -- False otherwise
   18: isADigit :: Char -> Bool
   19: isADigit x = \text{ord } x >= 48 \&\& \text{ ord } x <= 57
   21: -- | Returns True if the character represents an alphabetic
   22: -- character either in the range 'a'..'z' or in the range 'A'..'Z';
                                                          Avoid Mogic Numberls.
   23: -- False otherwise
   24: isAlpha :: Char -> Bool
   25: isAlpha x
   26:
             ord x >= 65 \&\& ord <math>x <= 90 = True
   27:
             ord x \ge 97 \&\& ord <math>x \le 122 = True
   28:
            otherwise = False
   29:
   30: -- | Returns the integer [0..9] corresponding to the given character.
   31: -- Note: this is a simpler version of digitToInt in module Data. Char,
   32: -- which does not assume the precondition.
   33: digitToInt :: Char -> Int
                                                               magic numbers.
   34: -- Pre: the character is one of '0'..'9'
   35: digitToInt x = (ord x) - 48
   37: -- Returns the upper case character corresponding to the input.
   38: -- Uses guards by way of variety.
   39: toUpper :: Char -> Char
   40: toUpper x
   41:
             ord x \ge 97 \&\& ord x \le 122 = chr ((ord x) - 32)
   42:
             otherwise = x
   43:
   44:
   45: --
   46: -- Sequences and series
   47: --
   48:
   49: -- | Arithmetic sequence
   50: arithmeticSeg :: Double -> Double -> Int -> Double
   51: arithmeticSeq a d n = a + ((fromIntegral n) * d)
   52:
   53: -- | Geometric sequence
   54: geometricSeq :: Double -> Double -> Int -> Double
   55: geometricSeq a r n = a * (r ** (fromIntegral n))
   56:
   57: -- | Arithmetic series
   58: arithmeticSeries :: Double -> Double -> Int -> Double
   59: arithmeticSeries a d n = ((fromIntegral n)+1) * (a + ((d*(fromIntegral n))/2/
   60:
   61: -- | Geometric series
   62: geometricSeries :: Double -> Double -> Int -> Double
   63: geometricSeries a r n
   64:
            r == 1 = a * ((fromIntegral n) + 1)
            otherwise = a * ((1-(r ** ((fromIntegral n) + 1)))/(1-r))
   65:
```

```
1: ----- Test Output -----
 2: [1 of 3] Compiling IC.TestSuite
                                        ( IC/TestSuite.hs, IC/TestSuite.o )
 3: [2 of 3] Compiling Sequences
                                       ( Sequences.hs, Sequences.o )
 4: [3 of 3] Compiling Tests
                                       ( Tests.hs, Tests.o )
 5: maxOf2: 3 / 3
 7: maxOf3: 3 / 3
 9: isADigit: 2 / 2
10:
11: isAlpha: 2 / 2
13: digitToInt: 2 / 2
15: toUpper: 2 / 2
17: arithmeticSeq: 4 / 4
19: geometricSeq: 4 / 4
21: arithmeticSeries: 4 / 4
23: geometricSeries: 4 / 4
25: copying Tests.hs from skeleton
26: [3 of 3] Compiling Tests
                                       ( Tests.hs, Tests.o )
27: maxOf2: 3 / 3
28:
29: maxOf3: 3 / 3
31: isADigit: 2 / 2
32:
33: isAlpha: 2 / 2
35: digitToInt: 2 / 2
37: toUpper: 2 / 2
39: arithmeticSeq: 4 / 4
41: geometricSeq: 4 / 4
43: arithmeticSeries: 4 / 4
45: geometricSeries: 4 / 4
46:
48: ----- Test Errors -----
49: Checking https://repol.maven.org/maven2/org/scala-lang/scala3-library_3/
50: Checked https://repol.maven.org/maven2/org/scala-lang/scala3-library_3/
51: Downloading https://repol.maven.org/maven2/org/scala-lang/scala3-library_3/
52: Downloaded https://repol.maven.org/maven2/org/scala-lang/scala3-library_3/
53: Checking https://repo1.maven.org/maven2/org/scala-lang/scala3-library_3/maven-metadata.xml
54: Checked https://repol.maven.org/maven2/org/scala-lang/scala3-library 3/maven-metadata.xml
55: Downloading https://repol.maven.org/maven2/org/scala-lang/scala3-library_3/maven-metadata.xml
56: Downloaded https://repol.maven.org/maven2/org/scala-lang/scala3-library_3/maven-metadata.xml
```

Final Tests

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