Exercises – Pseudocode

Exercises:

1. Write down in your own words what the following algorithms are supposed to do and what their output will be.

a)

**BEGIN** function

**PRINT** “Enter the first number”

**INPUT** num1

**PRINT** “Enter the second number”

**INPUT** num2

num3 = num1 + num2

num4 = num3 / 2

**PRINT** num4

**END** function

b)

**BEGIN** NestedWhile

**SET** counter1 to 1

**SET** num to 1

**WHILE** counter1 is less or equal to 5

**WHILE** num is less than counter1

**PRINT** num

**INCREMENT** num

**ENDWHILE**

**INCREMENT** counter1

**ENDWHILE**

**END** NestedWhile

c)

**READ** current

**SET** sum to current

**SET** superIncreasing to true

**WHILE** there is more input data

**READ** current

**IF** current <= sum

**SET** superIncreasing to false

**ELSE**

**SET** sum to sum + current

**ENDIF**

**ENDWHILE**

**IF** superIncreasing is true

**PRINT** ‘Input forms a super increasing sequence.’

**ELSE**

**PRINT** ‘Input is not super increasing.’

**ENDIF**

(input data:1 2 4 8 16 22 40)