



Exercise – Pseudocode

Exercises:

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

```
PRINT "Enter the first number"
INPUT num1
PRINT "Enter the second number"
INPUT num2
num3 = num1 + num2
num4 = num3/2
PRINT num4
END function
```

```
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
```

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```
READ current
SET sum to current
SET superIncreasing to true
WHILE there is more input data
     READ current
     IF current <= sum</pre>
           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)
```

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- 2. Write pseudocode to print all multiples of 5 between 1 and 100.
- 3. Write pseudo code that reads in three numbers and writes them all in sorted order
- 4. Convert all the above pseudocode into C++ and make sure your files are appropriately commented.

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