Fundamentals of Parallel systems

Lab Book

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Exercise 2-1

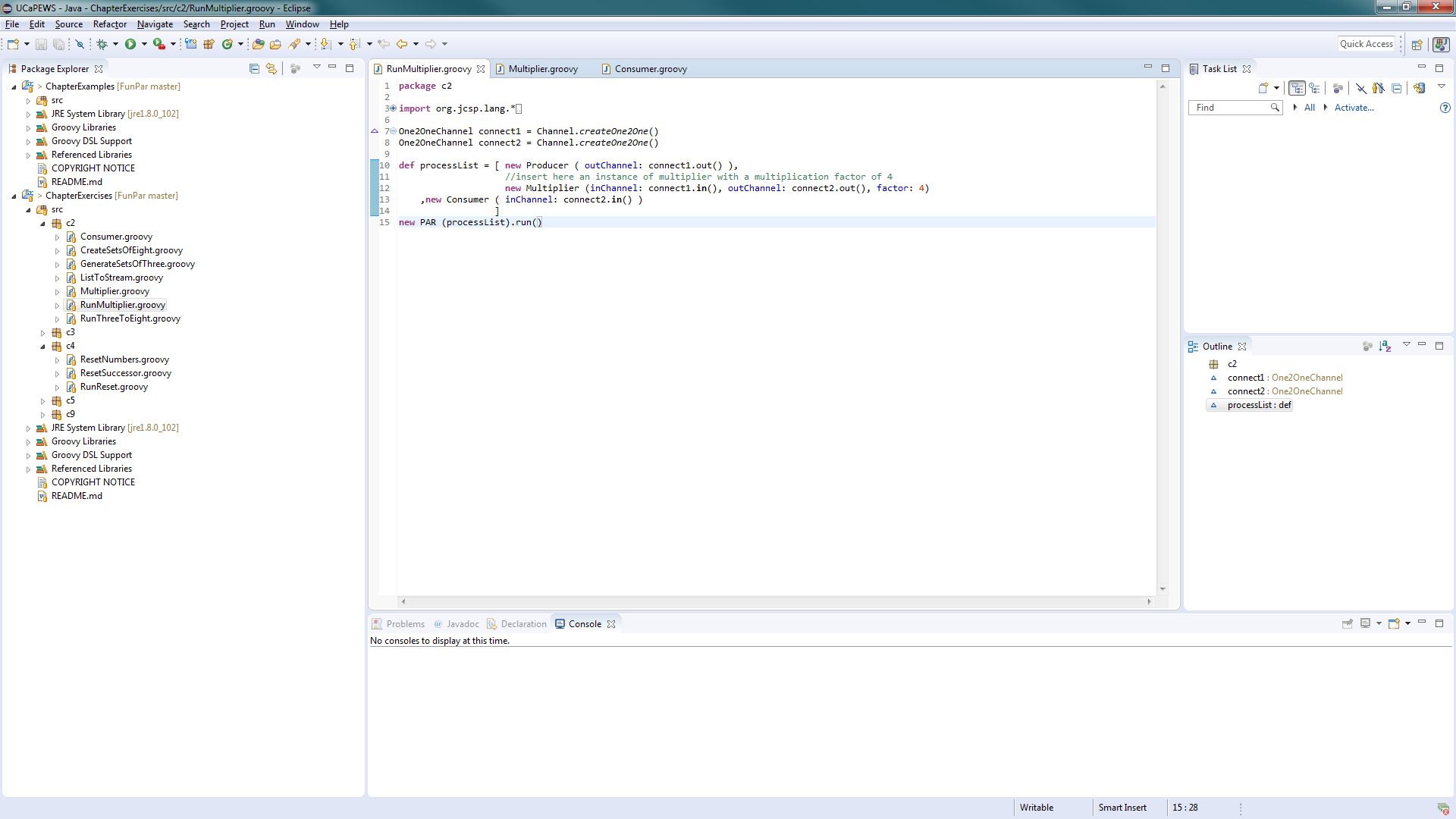
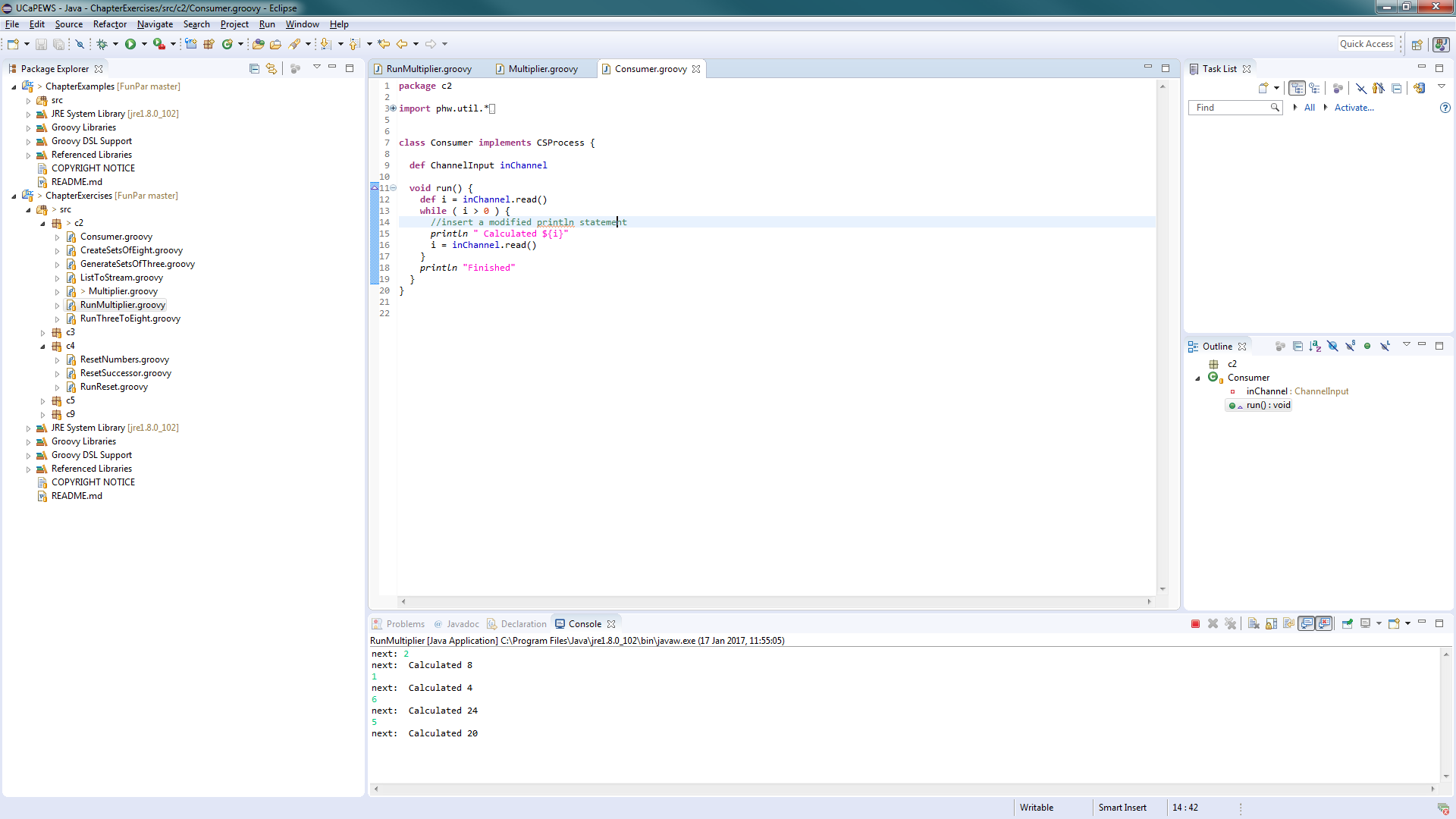
Producer

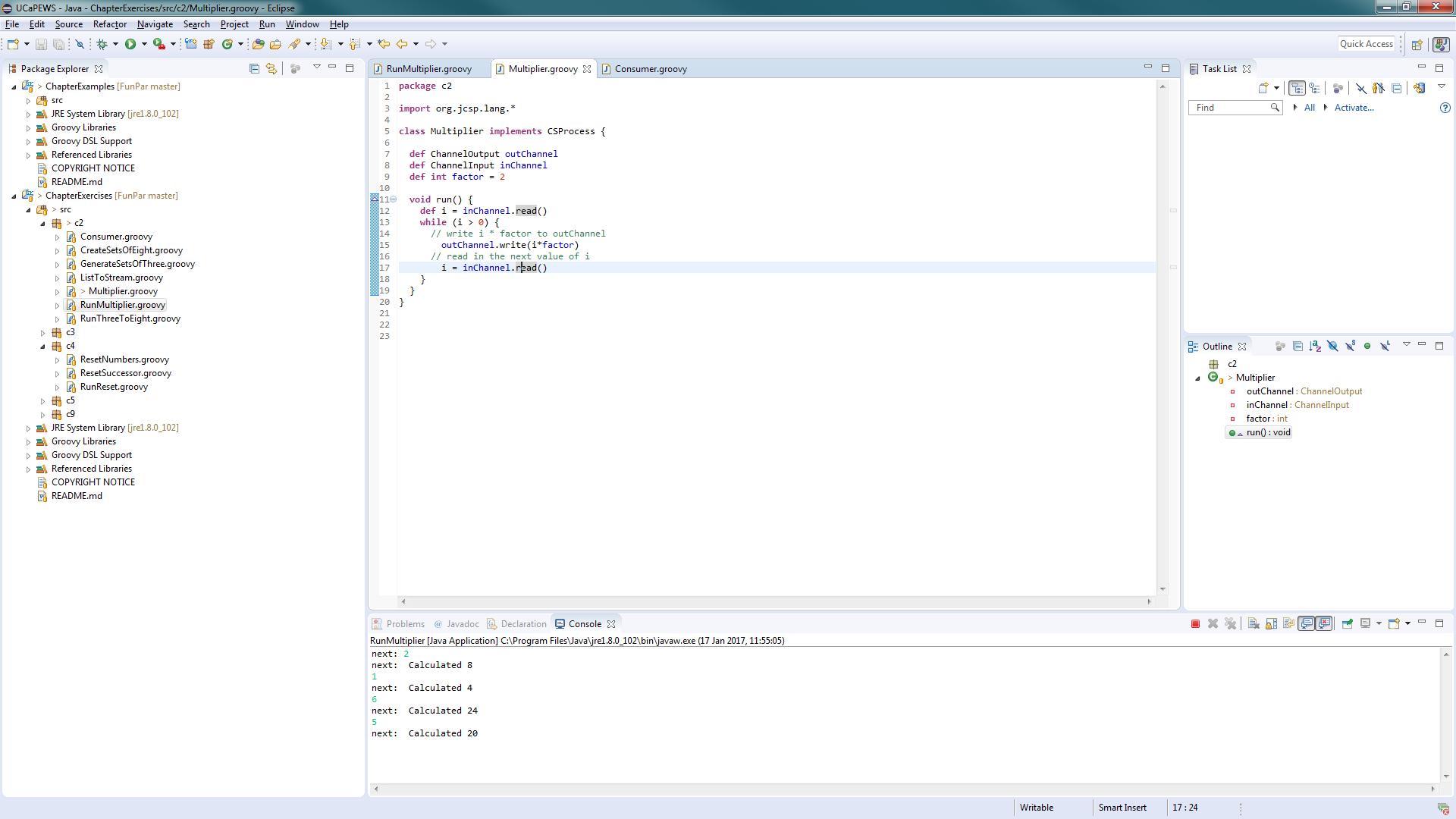
Multiplier

Consumer

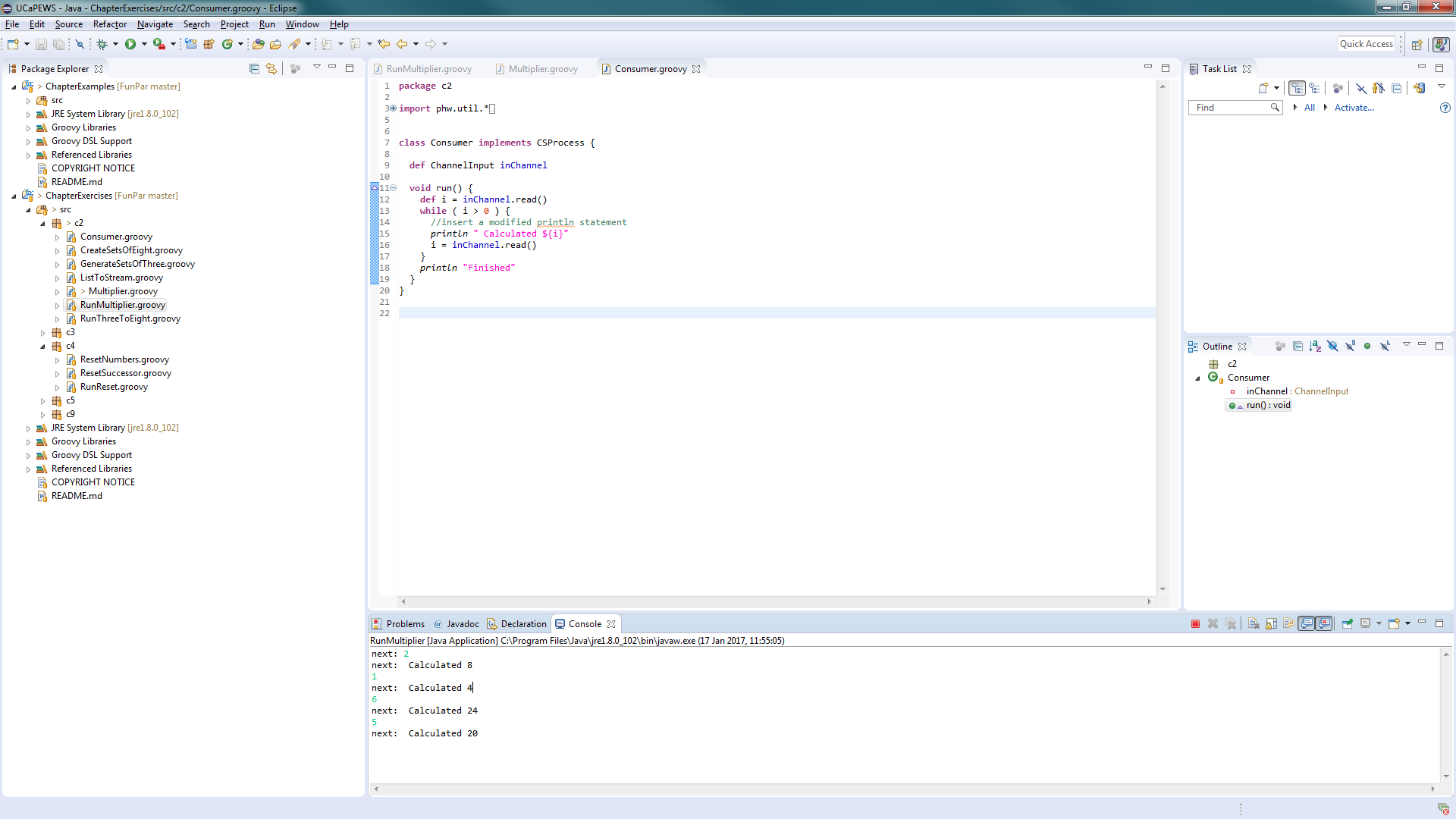
Channel 2

Channel 1





Output



Exercise 2-2

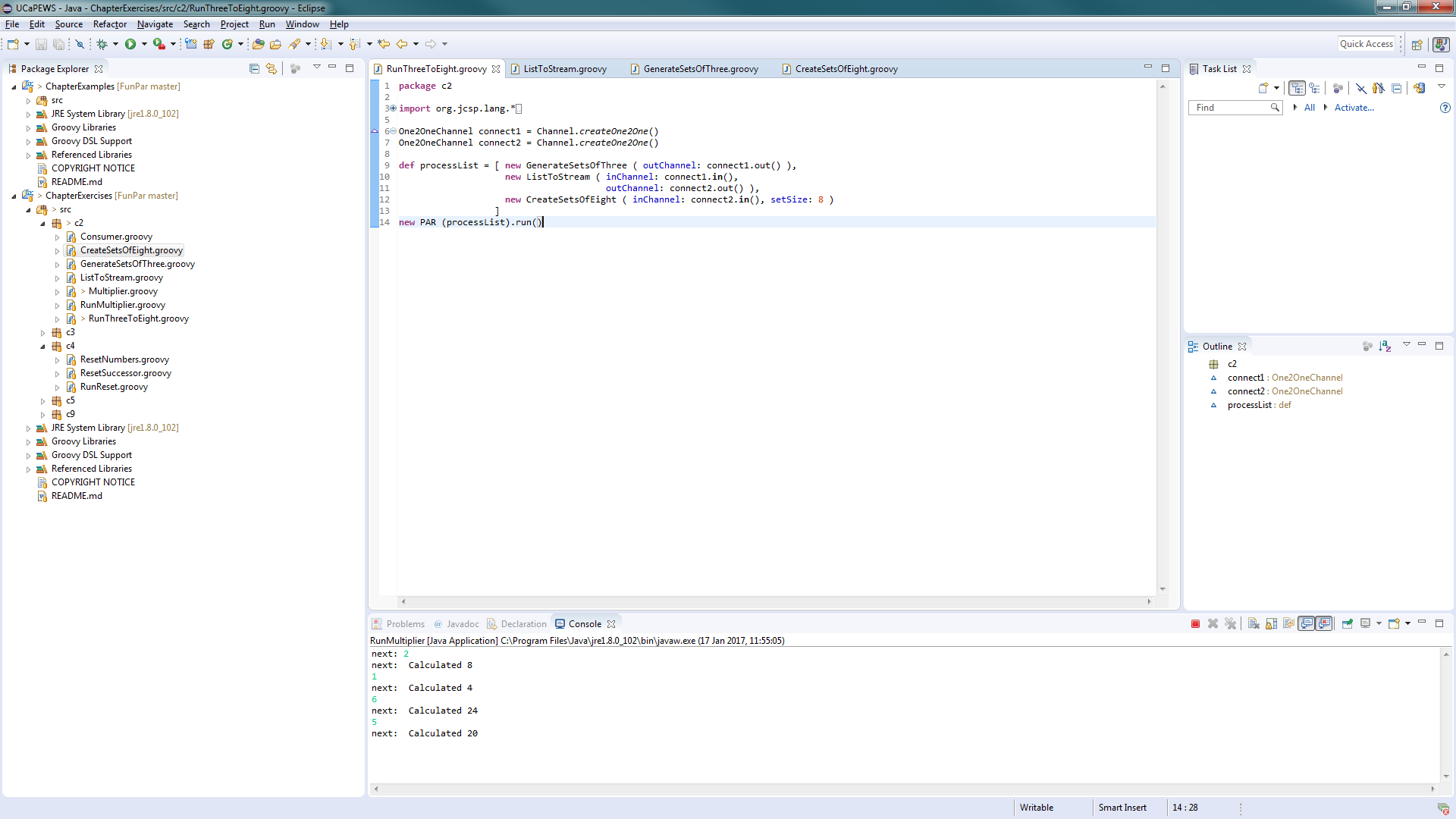
Channel 2

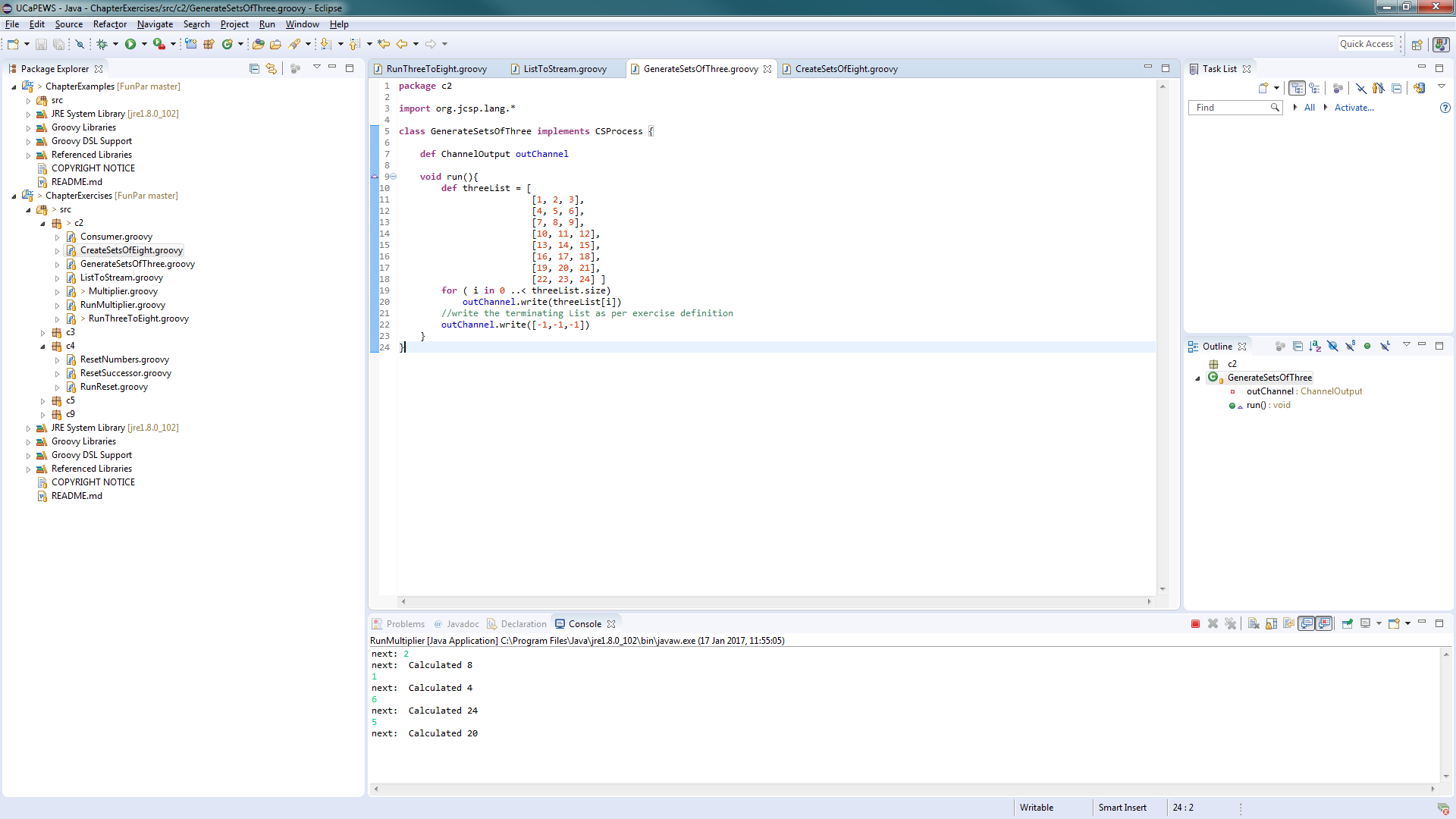
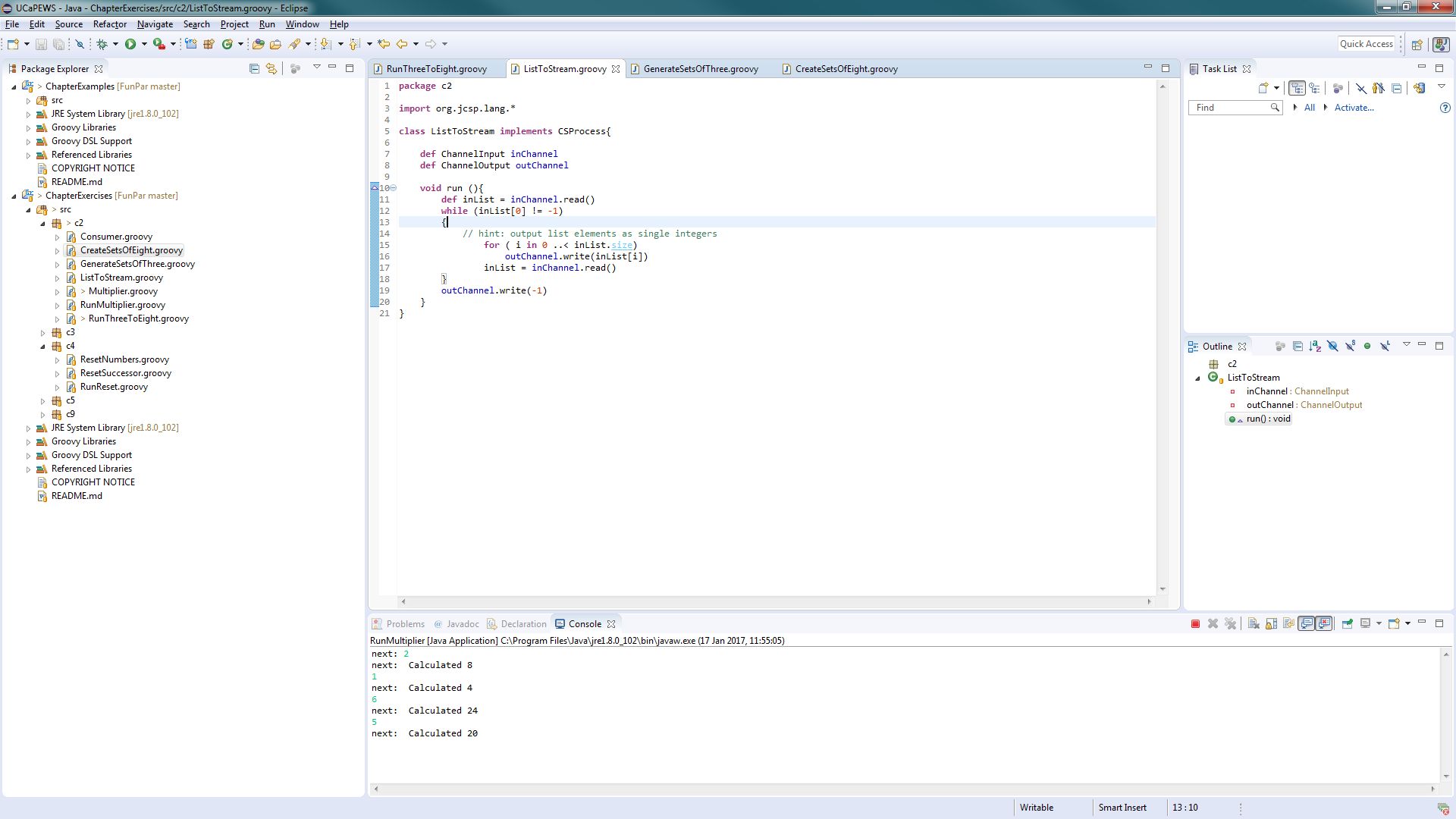
Channel 1

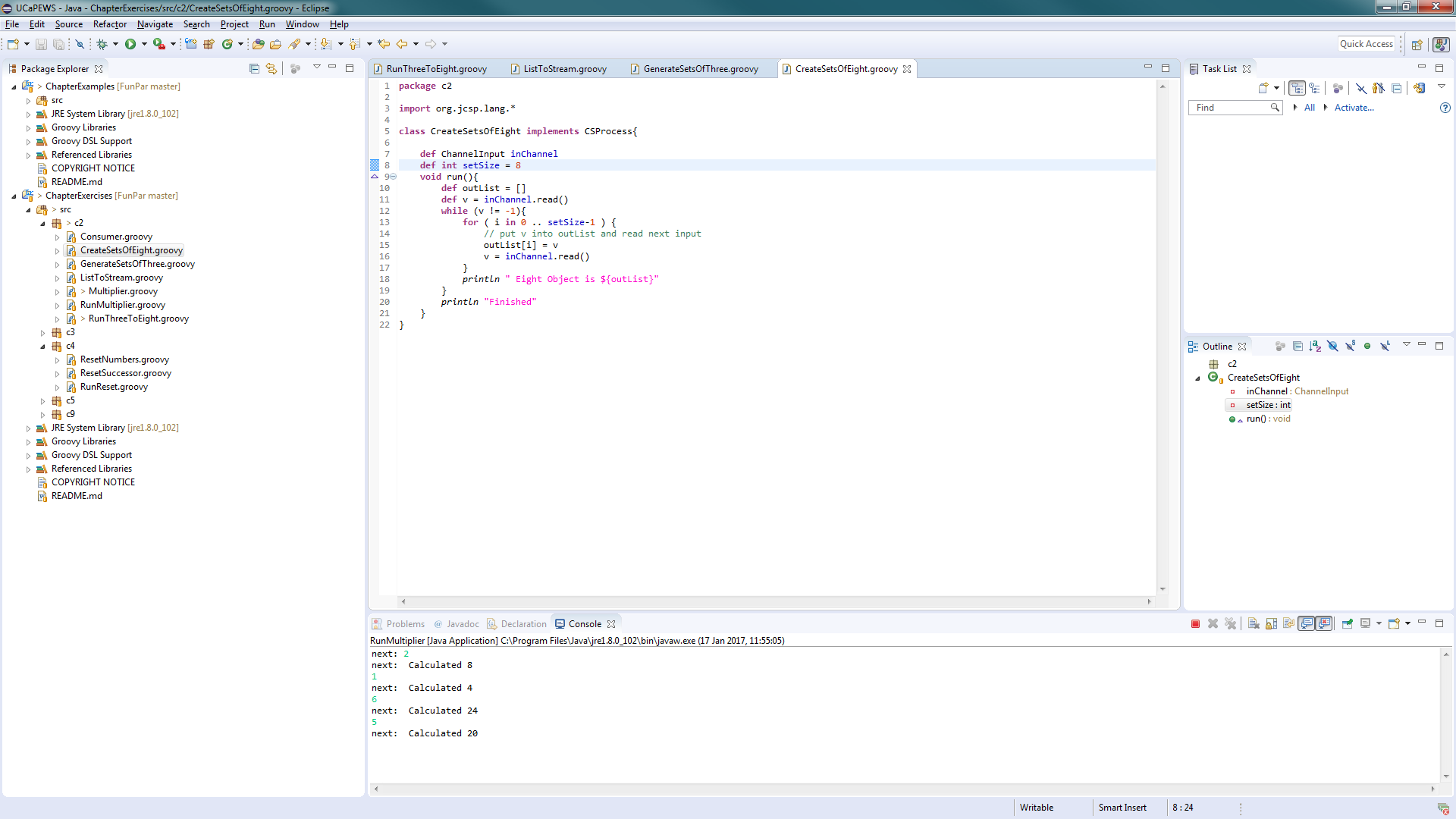
ListToStream

CreateSetsOfN

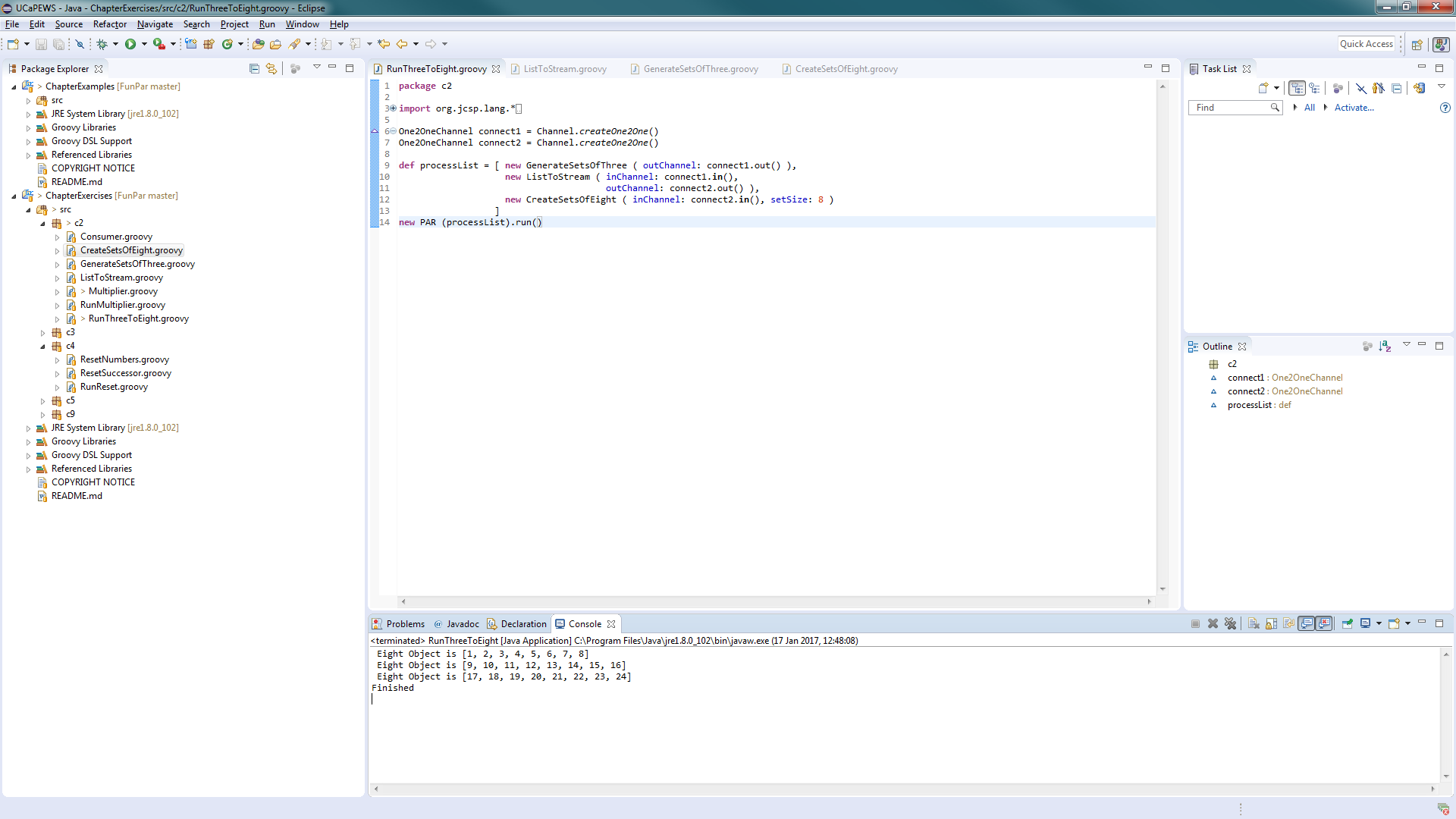
GenerateSetsOf  
Three







Output.



What change is required to output objects containing six integers?

* Change the for loop in the CreateSetsOfN to print out in a list of 6 instead of a list of 8.

How could you parameterise this in the system to output objects than contain any number of integers.

* Create a variable to store what the size of the list is to be outputted.

What happens if the number of integers required in the output stream is not a factor of the total number of integers in the input stream?

* The program omits the remainder of the set that would be printed and cannot terminate.

Exercise 3-1

D2P

I2D

N2I

GPrint

GIntegrate

Differentiate

GNumbers

Differentiate

a

Minus

In

Out

b

c

GPrefix

GPCopy

DifferentiateNeg

a

d

In

GPlus

Negator

GPrefix

GPCopy

out

c

b

The original differentiate approach is better as it provides a more sensible solution to the problem.