```
4.e
                                             reduce(+;0) \circ part-reduce(+;0) \circ map(*) \circ zip(y) \circ x
                      reduce(+;0) \circ outerJoinn \circ map(part-reduce(+;0)) \circ outerSplitn \circ map(*) \circ zip(y) \circ x
                                                                                                                        4.d
\mathsf{reduce}(+;0) \circ \mathsf{outerJoinn} \circ \mathsf{map}(\mathsf{part-reduce}(+;0)) \circ \mathsf{outerSplitn} \circ \mathsf{outerJoinn} \circ \mathsf{map}(\mathsf{map}(*)) \circ \mathsf{outerSplitn} \circ \mathsf{zip}(\mathsf{y}) \circ \mathsf{x}
                 reduce(+;0) \circ outerJoinn \circ map(part-reduce(+;0)) \circ map(map(*)) \circ outerSplitn \circ zip(y) \circ x
                                                                                   4.h
                      reduce(+;0) \circ outerJoinn \circ map(part-reduce(+;0) \circ map(*)) \circ outerSplitn \circ zip(y) \circ x
                                                                             4.e/5.b
                                                                                                    5.a
                      reduce(+;0) \circ outerJoinn \circ map(reduce-seq(+;0) \circ map-seq(*)) \circ outerSplitn \circ zip(y) \circ x
                                                                                         4.h
                 reduce(+;0) \circ outerJoinn \circ map(reduce-seq(\lambda lacc,<a,b>: acc+a*b;0)) \circ outerSplitn \circ zip(\mathbf{y}) \circ \mathbf{x}
```

reduce(+;0) \circ map(*) \circ zip(y) \circ x