Extra Exercise 3.3:
Formulate the 2D-BinPacking Problem as constraint optimization problem. $N$ rectangular items each with a (probably different) given height and width have to be packed into rectangular bins all of the same size $W \times H$. It can be assumed that the items are sorted according to non-increasing height. The goal is to minimize the number of bins needed to pack all items (the natural upper bound therefore is $N$ — each item into one bin).