Packing

Problem 43*: Use clingo to pack a given set of squares into a given rectangular area without overlaps. For instance, if the sides of the squares are 4, 3, 2, 2, and 1, and the area is $5 \times 8$, then the problem can be solved as follows:

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A A A A B B B x
A A A A B B B x
A A A A B B B E
A A A A C C D D
x x x x C C D D
```

(the x’s indicate the part of the area that remains unused).