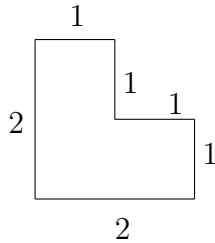


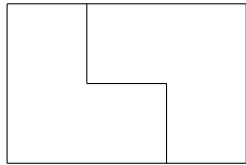
## School Bowl

You are given a tile in the shape of an “L”. The edge lengths are shown below

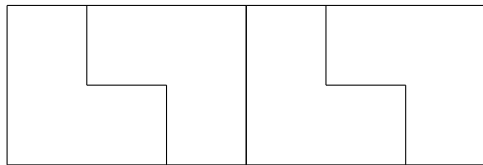


You place these together to form rectangles (with no holes or gaps). Find all positive integers  $(m, n)$  where  $m$  is the horizontal length and  $n$  is the vertical length of these rectangles.

For example:  $(3, 2)$  is such a pair of integers.



Another example is  $(6, 2)$ .



## School Bowl Answer Sheet

Identification Code: \_\_\_\_\_

Describe all pairs  $(m, n)$  of positive integers for which an  $m$  by  $n$  rectangle can be formed from the  $L$ -tile.

Partial credit will be given for partial solutions.