



INPUT: A 2-fat rectangle (= length/width ratio at most 2);  
 $n$  agents that value it as  $V_n \geq 6n - 8$ .

OUTPUT: Each agent can get a square with value  $\geq 1$ .  
 Alternatively, each agent that values the whole as at least  $4n - 5$  can get a 2-fat rectangle with value  $\geq 1$ . Note that a square is 2-fat.

VERIFIED