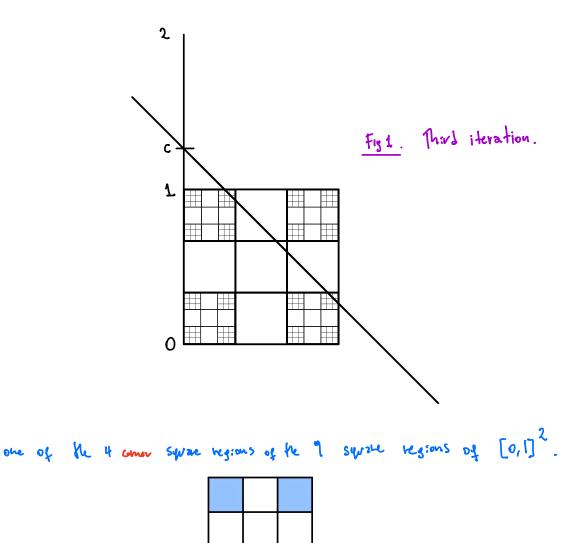
Centor's set is not countable let C be the centor set and let $c \in [0,2]$. We will first show that: C+C = [0,2].

let Lo = {x,y | x+y=c} < 12². Note that Lo intersects at least



The segment reports if we pick one of these seprenes intersecting LC and subdivide it in other 9 seprenes (see Fig. 1). By completeness of $1R^2$ and iterating this segment we conclude $(C \times C) \cap L_C \neq 0$. In particular, there exist $x_i y \in C$ such that x+y = C. This shows $[0,2] \subset C+C$. Conversely, since $C \subseteq [0,1]$, flow $C+C \subseteq [0,2]$. Noregone, C+C = [0,2].

In protocher, the function

$$+|_{C\times C}: C\times C \longrightarrow [0,2]$$

is surjective. This shows the direct product CXC is not countable. Nonegane C is not countable.