Exercises

E9.65 [ORH] Find a sequence of connected closed sets $C_n \subseteq \mathbb{R}^2$ such that $C_{n+1} \subseteq C_n$ and the intersection $\bigcap_n C_n$ is a non-empty and disconnected set.

Can you find such an example in $\mathbb{R}$?

Solution 1. *[ORJ]*