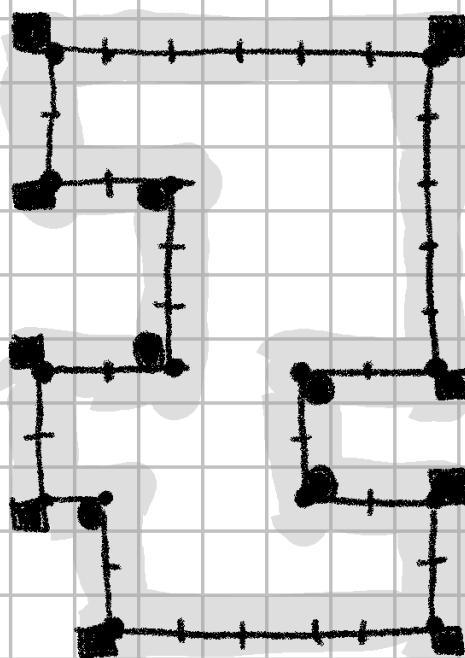


same area but 10x more insight!



9 ■
5 ●

the signed area contains almost $\frac{1}{2}$ of the border!

$$\text{Full_area} = \frac{\text{signed_area} + \text{perimeter}}{2} + 1$$

*Notice the exterior vertices they are off by $\frac{1}{4}$!

Signed area is shoelace algorithm

There should be exactly 4 more exterior vs interior vertices