GROUP DISCUSSION:
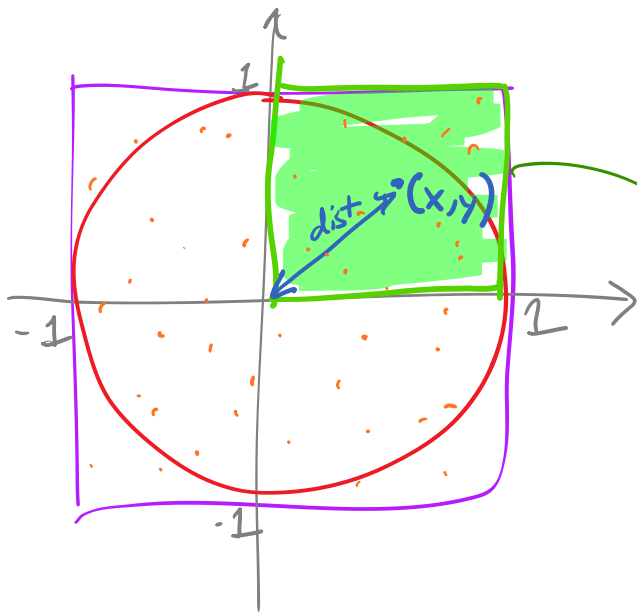
How does the "dart board" algorithm approximate π?

$dist = \sqrt{x^2 + y^2} \leq 1$

$$x^2 + y^2 \leq 1$$

area of $\square$ is 1

area of D is $\frac{\pi}{4}$

So: $\frac{acc}{m} \approx \frac{\pi}{4}$

return value $\longrightarrow$ $4 \cdot \frac{acc}{m} \approx \pi$