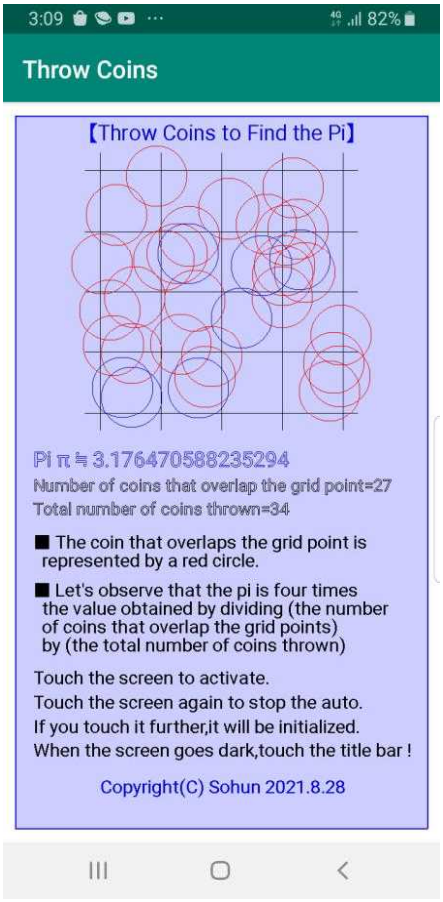
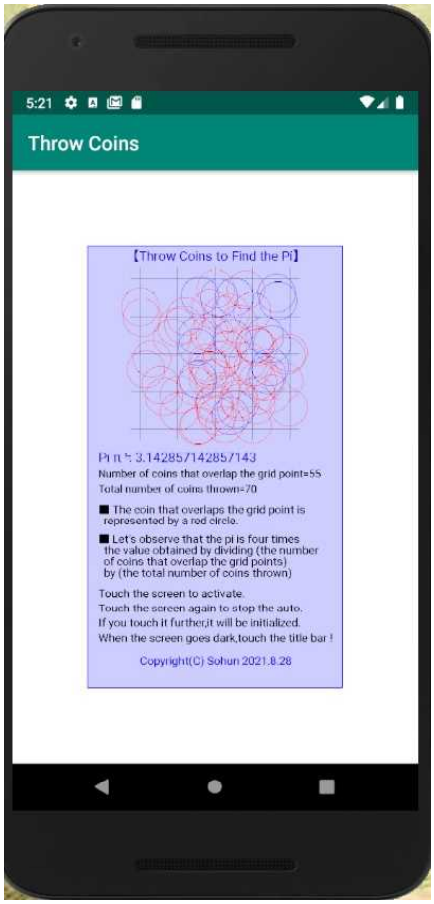
【Throw Coins to find the Pi】

※　Throw coins on the grid line and observe how the approximate value of pi can be obtained from the ratio of coins that overlap the grid points.

pi ＝ (Number of coins that overlap the grid points) ÷ (Total number of coins thrown) × 4



【Screenshot】
Galaxy S9



【Emulator image】
Android Studio Version 3.5.1

［Outline］

Throw coins to find an approximation of pi.

Draw vertical and horizontal parallel lines at equal intervals,and throw coins randomly from above.

However,the distance between the vertical and horizontal parallel lines should be equal to the diameter of the coin.

The approximate value of pi can be obtained from the ratio of the number of coins thrown to the number of coins that overlap the grid points.（The intersection of vertical and horizontal lines is called a grid point）

Let's explain the reason mathematically.